

February 26, 2007

Utah Division of Oil, Gas and Mining P.O. Box 145801 1594 West North Temple, Suite 1210 Salt Lake City, Utah 84114-5801

7-7-46 BTR Tribal Surface/Tribal Minerals NWSE, Section 7-T4S-R6W Duchesne County, Utah

Diana Whitney, Permitting - Petroleum Technician:

Enclosed please find a copy of Bill Barrett Corporation's (BBC) application for permit to drill the above captioned well.

Please contact me at (303) 312-8546 if you need anything additional or have any questions.

Sincerely,

Reed Haddock Permit Analyst

Enclosures

RECEIVED MAR 0 2 2007

DIV. OF OIL, GAS & MINING

1099 18TH STREET SUITE 2300 DENVER, CO 80202

303.293.9100

303.291.0420

Form 3160-3 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED	
OMB No. 1004-0137	
OMB No. 1004-0137 Expires March 31, 2007	

5.	Lease Serial No. PENDING	BIA-EDA-20G000560
-	If Indian Allata	or Triba Nama

UTE INDIAN TRIBE

Ia. Type of work: ✓ DRILL REENT	ER		N/A	ame and No.
1b. Type of Well: Oil Well Gas Well Other	✓ Single Zone Multip	ole Zone	8. Lease Name and Well No. #7-7-46 BTR	
2 Name of Operator BILL BARRETT CORPORATION			9. API Well No. Pending 43-01	3-33565
3a. Address 1099 18th Street, Suite 2300 Denver CO 80202	3b. Phone No. (include area code) (303) 312-8168		10. Field and Pool, or Explorato	
4. Location of Well (Report location clearly and in accordance with a	ny State requirements.*)		11. Sec., T. R. M. or Blk. and St	
At surface NWSE, 2323' FSL, 2465' FEL, Sec	tion 7, T4S, R6W			
At proposed prod. zone SWNE, 1980' FNL, 1980' FEL, Se	ction 7, T4S, R6W		Section 7-T4S-R6W U	.S.B.&M.
14. Distance in miles and direction from nearest town or post office*			12. County or Parish	13. State
Approximately 14 miles southwest of Duchesne, Utah			Duchesne	UT
 Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 2323' SHL; 1980' BHL	16. No. of acres in lease N/A	17. Spacin	g Unit dedicated to this well	
18. Distance from proposed location*	19. Proposed Depth	20. BLM/I	BIA Bond No. on file	
to nearest well, drilling, completed, applied for, on this lease, ft. None w/in 1 mile	8731' Natio		onwide Bond #WYB000040	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22 Approximate date work will sta	rt*	23 Estimated duration	
5917' Ungraded Ground	06/01/2007		45 days	
	24. Attachments		•	
The following, completed in accordance with the requirements of Onshe	ore Oil and Gas Order No.1, shall be a	ttached to th	is form:	
1. Well plat certified by a registered surveyor.		he operation	ns unless covered by an existing	bond on file (see
2. A Drilling Plan.	Item 20 above).			
 A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 		specific info	ormation and/or plans as may be	required by the
				

ged Haddoc K Name (Printed/Typed) Date 25. Signature Reed Haddock 02/26/2007

Title

Name (Printed/Typed)

BRADLEY G. HIL OfficenVIRONMENTAL MANAGER

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to

conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on page 2)

BHL

Federal Approval of this Action is Necessary

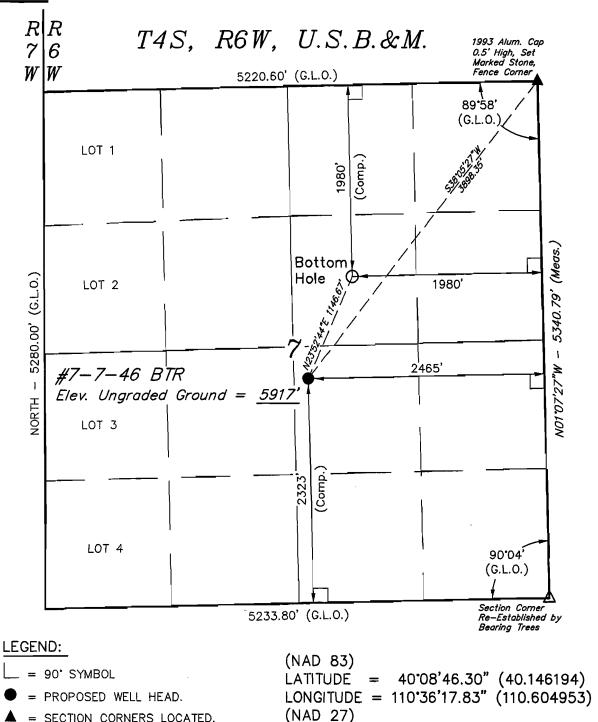
Sur f

Title

533695X 44434044 40.146699 -110.664427 533839X 44441944 40.149305 -110.602711

RECEIVED MAR 0 2 2007

DIV. OF OIL, GAS & MINING



= SECTION CORNERS RE-ESTABLISHED.

(Not Set on Ground)

LATITUDE = $40^{\circ}08'46.46''$ (40.146239)

LONGITUDE = 110'36'15.27'' (110.604242)

BILL BARRETT CORPORATION

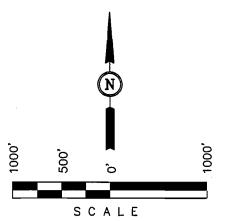
Well location, #7-7-46 BTR, located as shown in the NW 1/4 SE 1/4 of Section 7, T4S, R6W, U.S.B.&M., Duchesne County, Utah.

BASIS OF ELEVATION

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESNE SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED ON CAP AS BEING 6097 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND THE BEST OF MY KNOWLEDGE AND BELIEF

REGISTRA IROBERTOL.

REVISED: 02-06-07

UINTAH ENGINEERING & LARDE STORES 84078

(435) 789-1017

	1" = 1000'	DATE SURVEYED: 01-29-07	DATE DRAWN: 02-02-07
	PARTY D.R. Q.B. P.M.	REFERENCES G.L.O. PLAT	
ſ	WEATHER	FILE	
	COLD	BILL BARRETT	CORPORATION

HAZARDOUS MATERIAL DECLARATION

WELL NO. # 7-7-46 BTR - LEASE NO. BIA PENDING

Bill Barrett Corporation guarantees that during the drilling and completion of the above referenced well, we will not use, produce, or store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Super Amendments and Reauthorization Act (SARA) of 1986.

Bill Barrett Corporation guarantees that during the drilling and completion of the above referenced well, we will use, produce, store, transport, or dispose less than the threshold planning quantity (TPQ) of any extremely hazardous substances as defined in 40 CFR 355.

DRILLING PLAN

BILL BARRETT CORPORATION # 7-7-46 BTR NWSE, 2323' FSL & 2465' FEL, Section 7-T4S-R6W Duchesne County, Utah

1 - 3. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals

<u>Formation</u>	<u>Depth</u>
Duchesne River/Uinta	Surface
Green River	3,444'
Douglas Creek	4,246'
Black Shale	4,929'
Castle Peak	5,214'
Wasatch	5,844' *
North Horn	7,756' *
TD	8,731'

^{*}PROSPECTIVE PAY

The Wasatch and the North Horn are primary objectives for oil/gas.

4. <u>Casing Program</u>

١	Hole	SETTING DEPTH		Casing	Casing	Casing		
	Size	(FROM)	<u>(TO)</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>	<u>Condition</u>
	12 1/4"	surface	900'	9 5/8"	36#	J or K 55	ST&C	New
	7 7/8"	surface	8,731'	5 ½"	17#	N or I 80	LT&C	New

5. <u>Cementing Program</u>

9 5/8" Surface Casing	Approximately 310 sx Halliburton Light Premium with additives mixed at 12.3 ppg (yield = 1.43 ft ³ /sx) circulated to surface with 100% excess
5 1/2" Production Casing	Approximately 170 sx Halliburton Hi-Fill Modified cement with additives mixed at 11.0 ppg (yield = 3.81 ft ³ /sx). Approximately 690 sx Halliburton Light Premium Plus cement with additives mixed at 13.5 ppg (yield = 1.58 ft ³ /sx). Top of cement to be determined by log and sample evaluation; estimated TOC 900'.

6. Mud Program

Interval	Weight	Viscosity	Fluid Loss (API filtrate)	Remarks
40' – 900'	8.3 - 8.8	26 – 36	NC	Freshwater Spud Mud Fluid
				System
900' – TD	8.6 – 10.6	42-52	15 cc or less	KCL Polymer Fluid System

Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.

7. BOP and Pressure Containment Data

Depth Intervals	BOP Equipment
0 – 900'	No pressure control required
900' – TD	11" 3000# Ram Type BOP
	11" 3000# Annular BOP
- Drilling spool to	accommodate choke and kill lines;
- Ancillary and cho	ske manifold to be rated @ 3000 psi;
- Ancillary equipm	ent and choke manifold rated at 3,000#. All BOP and BOPE tests will be in
accordance with t	he requirements of onshore Order No. 2;
- The BLM and the	State of Utah Division of Oil, Gas and Mining will be notified 24 hours in
advance of all Bo	OP pressure tests.
- BOP hand wheels	s may be underneath the sub-structure of the rig if the drilling rig used is set up
To operate most e	efficiently in this manner.

8. Auxiliary equipment

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
- c) Safety valve(s) and subs to fit all string connections in use
- d) Mud monitoring will be visually observed

9. Testing, Logging and Core Programs

Cores	None anticipated;
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land well bore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface).
	FMI & Sonic Scanner to be run at geologist's discretion.

10. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 4731 psi* and maximum anticipated surface pressure equals approximately 2840 psi** (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

Bill Barrett Corporation Drilling Program # 7-7-46 BTR Duchesne County, Utah

*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

**Maximum surface pressure = $A - (0.22 \times TD)$

11. Location and Type of Water Supply

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W.

12. Drilling Schedule

Location Construction:

Approximately May 15, 2007

Spud:

Approximately June 1, 2007

Duration:

20 days drilling time

45 days completion time



BILL BARRETT CORPORATION

1099 18th St., Suite 2300 Denver, CO 80202

Field: Brundage/Lake Canyon

Geological Basin: <u>Uinta</u> Well Name: <u>General</u>

Location: Duchesne County, UT

KCL Polymer Drilling Fluid Recommendation

Prepared for: Mr. Dominic Spencer

August 17, 2006

Submitted by: Isaac Womack, Tech. Prof., Baroid product service line, Halliburton 1125 17th St., Suite 1900 Denver, CO 80202 303.675.4476 isaac.womack@Halliburton.com



Brundage Canyon

Duchesne County, Utah

DRILLING PROGRAM BRIEFING

Well total depth

8,500' TMD

Casing design

Surface Production Hole Size 12 1/4" 7 7/8"

Casing 9 5/8" 5 1/2"

Length 750' 8500'

*Fluid density

8.3 - 9.0 ppg from

0' to 750'

8.6 - 10.0 ppg from 750' to 8500'

NOTE: Data taken from off-set wells in Duchesne County, UT

*The drilling fluid density schedule is intended as a guideline only. Actual drilling fluid densities should be determined by well bore conditions and drilling parameters.

Estimated drilling days

0' to 750'

= 2 days (12 1/4" Hole)

750' to 8,500'

= 16days (7 7/8" Hole)

Total = 18 days

Drilling fluid systems

0' to 750'

- Freshwater Spud Mud

750' to 8,500'

- KCL Polymer

Solids control equipment:

0' - 8,500'

- Two Shale Shakers

- Desander / Desilter / Degasser - One High Speed Centrifuge

(if available)

Est. total drilling fluid cost:

\$17,219.00

DRILLING FLUID PROGRAM SUMMARY

The following drilling fluid systems are proposed for the Brundage Canyon well:

HOLE SIZE (in.)	DRILLING FLUID SYSTEM	FLUID DENSITY (ppg)	INTERVAL LENGTH FROM - TO
12 1/4"	Freshwater spud mud fluid system	8.3 – 9.0	0' to 750'
8 3/4"	KCL Polymer fluid system	8.6 - 10.6	750' to 8,500'

12 1/4" Hole Section (0' to 750' TMD)

A freshwater spud mud drilling fluid system is recommended to drill this interval. Drill out conductor casing shoe with freshwater using additions of AQUAGEL and EZ-MUD to maintain fluid properties, as well as in hi-vi sweeps to facilitate hole cleaning. Pump BARACARB (25/50)/ sawdust sweeps prior to tripping out of the hole. Monitor the drillstring for tight connections. Expect minor to severe lost circulation in this interval. Pump sweeps of saw dust/ BARACARB at 5-10 ppb for minor seepage and sweeps of N-seal at 5 ppb and saw dust at 10 ppb for more severe losses. When total depth (TD) is reached make a wiper trip to the shoe to "clean up" the well bore, a string of 9 5/8" casing will then be set and cemented back to surface.

7 7/8" Hole Section (750' to 8,500' TMD)

After drilling the surface hole section, dump all of the drilling fluid used in the surface interval to the reserve pit. Check reserve pit water to make sure it is acceptable to use for drilling fluid.

Mud up with the following:

- .5 lb./bbl N-Vis P
- 2 lb/bbls ZEOGEL
- .5 lb/bbl BARACOR 700 (or phosphates over 1300 ppm (see corrosion program)) 3% by volume KCL

Maintain 3% KCL in the reserve pit while drilling this section. (add 3.5 ppb for every 1% increase)

Test for % of KCL

((ml of .282 Silver Nitrate added * 10,000)/3280) = %KCL *record and report this concentration on each mud report

Add BARACAT to reserve pit to flocculate out solids. This system should have sufficient YP to keep the hole clean while drilling this interval.

Lost Circulation: Should losses occur while drilling the lateral section add BARACARB (5) OR BARACARB (50) to control. (BARACARB can be acidized) Concentrations of BARACARB will be determined by the losses encountered. Expect increased lost circulation with increases in drilling fluid density. Continue to monitor and record all

Brundage Canyon

Duchesne County, Utah

instances of gas kicks, water flows and lost circulation, adjust mud weight as needed. Sweeps of LUBRA-BEADS may help reduce mechanical torque due to the dog-legs. When lateral has been drilled, circulate the hole clean and run production casing.

		Commen	aea Drill	ing Fluic	is Propert	ies	
Drilling Depth (ft)	Fluid Density (lb/gal)	Funnel Viscosity (sec/qt)	API Filtrate (ml)	рН	Plastic Viscosity (cP)	Yield Point (lbs/100 ft²)	Low Gravity Solids (% by
0' – 750'	8.3 - 8.8	26 – 36	NC	7.0- 8.5	0 15	0 - 24	Vol) < 8

- Spud with freshwater. Circulate through a reserve pit if possible.
- Mix 10.0-ppb AQUAGEL, 1.0 ppb EZ MUD, and 0.5-ppb lime in 50 bbl sweeps to improve well bore cleaning.
- ♦ Mix 1.0 gal. EZ-MUD down drill sting on connections for shale inhibition and optimum drill solids removal by the solids control equipment.
- Mix sweeps of saw dust/ BARACARB(25/50) at 5-10 ppb for minor seepage and N-seal at 5 ppb and saw dust at 10 ppb for more severe losses.
- If well bore conditions indicate, mud up to a KCL fluid system as indicated in the production

Drilling Depth (ft)	Fluid Density (lb/gal)	Funnel Viscosity (sec/qt)	API Filtrate (ml)	рН	Plastic Viscosity (cP)	Yield Point (lbs/100ft²)	Low Gravity Solids (% by Vol)
750' 8,500'	8.6 - 10.6	42 - 52	<20	10.5- 12.0	0-15	0-20	< 8
700 - 0,500		42 - 52 Production		12.0		0-20)

- Drill out the surface casing shoe with KCL Polymer fluid system.
- Build initial pH with caustic soda then maintain with lime
- Additions of 0.5-ppb BARAZAN D can be used to enhance the low end rheology for optimum well bore cleaning and a lower solids drilling fluid.
- For seepage losses sweep the hole with 10.0-ppb BARACARB (25/50) in sweeps.
- For more severe losses sweep the hole with 5.0-ppb N-SEAL and 10.0-ppb Saw Dust. If losses can't be controlled, spot an 80.0-ppb HYDRO-PLUG pill across the loss zone(s).
- Spot pills of LUBRA-BREADS and/or TOURQE-LESS for additional torque and drag reduction as needed in dog-legs.



Bill Barrett Corporation E-bill 1099 18th Street - Suite 2300 Denver, Colorado 80202

Brundage Canyon General

Duchesne County, Utah United States of America

Cementing Recommendation

Prepared for: Dominic Spencer

August 15, 2006

Version: 1

Submitted by: Pat Kundert Halliburton Energy Services 1125 17th Street - Suite 1900 Denver, Colorado 80202 +303.886.0839

HALLIBURTON

HALLIBURTON

Job Recommendation

9 5/8" Intermediate

Fluid Instructions
Fluid 1: Water Spacer
Gelled Water Ahead

Fluid Density: 8.33 Fluid Volume: 20 bb

8.33 lbm/gal 20 bbl

Fluid 2: Primary Cement Premium Plus - Type III

94 lbm/sk Premium Plus - Type III (Cement-api)

0.2 % Versaset (Thixotropic Additive)
2 % Calcium Chloride (Accelerator)

0.25 lbm/sk Flocele (Lost Circulation Additive)

Fluid Weight 14.50 lbm/gal Slurry Yield: 1.43 ft³/sk Total Mixing Fluid: 6.89 Gal/sk

Top of Fluid: 0 ft Calculated Fill: 750 f

ill: 750 ft

Volume: 66.16 bbl
Calculated Sacks: 259.74 sks
Proposed Sacks: 260 sks

HALLIBURTON

Job Recommendation

5 1/2" Production

Fluid Instructions Fluid 1: Water Spacer		
KCL Water Preflush Fluid 2: Lead Cement – (3500 – 750')	Fluid Density: Fluid Volume:	8.33 lbm/gal 10 bbl
Halliburton Hi-Fill Modified 94 lbm/sk Type 5 Cement (Cement) 16 % Bentonite (Light Weight Additive) 0.75 % Econolite (Light Weight Additive) 7.5 lbm/sk Gilsonite (Lost Circulation Additive) 2 lbm/sk Granulite TR 1/4 (Lost Circulation Additive) 3 % Salt (Salt) 0.2 % HR-7 (Retarder)	Fluid Weight Slurry Yield: Total Mixing Fluid: Top of Fluid: Calculated Fill: Volume: Calculated Sacks: Proposed Sacks:	11 lbm/gal 3.81 ft ³ /sk 23 Gal/sk 750 ft 2750 ft 106.07 bbl 156.32 sks 160 sks
Fluid 3: Tail Cement – (TD – 3500') Halliburton Light Premium Plus (Type 5) 3 % KCL (Clay Control) 1 % Econolite (Light Weight Additive) 0.5 % Halad(R)-322 (Low Fluid Loss Control) 0.6 % HR-5 (Retarder) 0.25 lbm/sk Flocele (Lost Circulation Additive) 1 lbm/sk Granulite TR 1/4 (Lost Circulation Additive)	Fluid Weight Slurry Yield: Total Mixing Fluid: Top of Fluid: Calculated Fill: Volume: Calculated Sacks: Proposed Sacks:	13.50 lbm/gal 1.58 ft ³ /sk 7.77 Gal/sk 3500 ft 6000 ft 232.46 bbl 826.05 sks 830 sks

7-7-46 BTR Proposed Cementing Program

Job Recommendation		Su	face Casing
Lead Cement - (900' - 0')			
Halliburton Light Premium	Fluid Weight:		lbm/gal
2.0% Calcium Chloride	Slurry Yield:	1.43	ft ³ /sk
0.25 lbm/sk Ploy-E-Flake	Total Mixing Fluid:	10.6	Gal/sk
	Top of Fluid:	Ο'	
	Calculated Fill:	900'	
	Volume:	112.95	bbl
	Proposed Sacks:	310	sks

Job Recommendation		Produc	tion Casing
Lead Cement - (3746' - 900')			
Halliburton Hi-Fill Modified	Fluid Weight:	11.0	lbm/gal
16.0% Bentonite	Slurry Yield:	3.81	ft ³ /sk
0.75% Ecpnolite	Total Mixing Fluid:	23.00	Gal/sk
7.5 lbm/sk Gilsonite	Top of Fluid:	900'	
2.0 lbm/sk Granulite TR	Calculated Fill:	2,846'	
3.0% Salt	Volume:	109.77	bbl
0.2% HR-7	Proposed Sacks:	170	sks
Tail Cement - (8731' - 3746')			
Halliburton Light Premium Plus	Fluid Weight:	13.5	lbm/gal
3.0% KC1	Slurry Yield:	1.58	ft ³ /sk
1.0% Econolite	Total Mixing Fluid:	7.77	Gal/sk
0.5% Halad®-322	Top of Fluid:	3,746'	
0.6% HR-5	Calculated Fill:	4,985'	
0.25 lbm/sk Flocele	Volume:	192.29	bbl
1.0 lbm/sk Granulite	Proposed Sacks:	690	sks

We name: Brundage / Lake Canyon General Op∈ rator: **Bill Barrett Corporation**

Strii g type: Surface

Duchesne County, UT Loce tion:

Des gn parameters:

Minimum design factors:

Environment:

No

Coll: pse Mud veight:

Collapse: 8.60 ppg Design factor

H2S considered? Surface temperature:

70.00 °F

Design is based on evacuated pipe.

1.125

1.10

1.80 (J)

1.80 (J)

655 ft

Bottom hole temperature: 79 °F Temperature gradient: 1.22 °F/100ft

Minimum section length:

750 ft

Burst:

Design factor

Cement top:

Surface

<u>Burst</u>

Max a rticipated surface

pre: sure: Intern: I gradient:

303 psi

Calcul ited BHP

0.22 psi/ft 468 psi

Tension:

Non-directional string.

No backup mud specified.

8 Round STC:

Neutral point:

8 Round LTC: Buttress:

1.80 (J) Premium: 1.80 (J) Body yield: 1.80 (B)

Tension is based on buoyed weight.

Re subsequent strings: Next setting depth:

8,500 ft Next mud weight: 9.700 ppg

Next setting BHP: Fracture mud wt: Fracture depth:

4,283 psi 12.000 ppg

Injection pressure

750 ft 468 psi

Run Seq	Segment Length (ft)	Size (In)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert	Measured Depth	Drift Diameter	Internal Capacity
1	750	9.625	36.00	J-55	ST&C	(ft) 750	(ft) 750	(in) 8.796	(ft³) 53.4
Run Seq	Collapse Load (psi)	Collapse Strength	Collapse Design	Burst Load	Burst Strength	Burst Design	Tension Load	Tension Strength	Tension
1	335	(psi) 2020	Factor 6.029	(psi) 468	(psi) 3520	Factor 7.53	(Kips) 24	(Kips) 394	Design Factor 16.72 J

Prepared Dominic Spencer by: Bill Barrett

Phone: (303) 312-8143 FAX: (303) 312-8195

Date: July 21,2006 Denver, Colorado

Remarks:

Collapse is t ased on a vertical depth of 750 ft, a mud weight of 8.6 ppg. The casing is considered to be evacuated for collapse purposes. Collapse stre ngth is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strengtin is not adjusted for tension.

Well name:

Bill Barrett: Corporation

Brundage / Lake Canyon General

Operator: String type:

Production

Location:

Duchesne County, UT

Design parameters:

Design is based on evacuated pipe.

Collapse

Mud weight:

9.70 ppg

Minimum design factors:

Collapse:

Design factor

1.125

H2S considered?

Environment:

Surface temperature:

Bottom hole temperature: Temperature gradient:

186 °F 1.22 °F/100ft

Minimum section length:

1,500 ft

No

70.00 °F

Burst:

Design factor

1.10

1.80 (J)

Cement top:

2,000 ft

Max anticipated surface

to backup mud specified.

pressure:

Burst

2,697 psi

Internal gradient: Calculated BHP

0.22 psi/ft 4,787 psi

Tension: 8 Round STC:

8 Round LTC: Buttress:

Body yield:

1.80 (J) 1.60 (J) Premium: 1.50 (J)

Tension is based on buoyed weight.

Non-directional string.

Neutral point:

8,103 ft

1.50 (B)

Run Seq	Segment i.ength (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert	Measured Depth	Drift Diameter	Internal Capacity
1	9500	5.5	17.00	N-80	LT&C	(ft) 9500	(ft) 9500	(in) 4.767	(ft³) 327.4
Run Seq 1	Collapse Load (psi) 4787	Collapse Strength (psi) 6290	Collapse Design Factor 1.314	Burst Load (psi) 4787	Burst Strength (psi) 7740	Burst Design Factor 1.62	Tension Load (Kips) 138	Tension Strength (Kips) 348	Tension Design Factor

Prepared Dominic Spencer by: Bill Barrett

Phone: (303) 312-8143 FAX: (303) 312-8195

Date: August 11,2006 Denver, Colorado

Rem irks:

Collapse is based on a vertical depth of 9500 ft, a mud weight of 9.7 ppg. The casing is considered to be evacuated for collapse purposes. Colla se strength is based on the Westcott, Dunlop & Kernler method of blaxial correction for tension.

Burst strength is not adjusted for tension.

l-80 Performance					H80 Per	formance	Propertie			J-55 Pe	rformance	Propertie						
Property	ملمحدة	lb per	ft	psi	, Dursi, psi		1000 lbs	Maximun	n Collapse	Burst,	Tension,	OOO Hoo			N-80 Per	formance	Propertie	26
				por	þa	Pipe Bod		Set Denti	h, psi	psi	Pipe Body		Maximum	OUILLISH.	Burst,	Tension, 1	000 lbs	Ma
Comparison	4.500	9.50) Short			Vield	Strengtl	feet	-		Yield	Strength	Set Depth, feet	psi	psi	Pipe Body Yield	Joint	Se
		10.50		5000	6380	221	138	6930	3310	4380						I IONU	Strength	
•		11.60	-,,,,,,		6970	241	173	8780	4010	4380 4790	152	101	5890	3900	6380	221	1.10	
			Long	6350	7780	267	201	9610	4960	5350	165	132	7000	4940	6970	241	143	
	5.500	14.00	Short						.000	3330	184	162	7760	6350	7780	267	186	
	-1.500	15.50	OHOIL	3620	6210	322	234	6440	3120	4070					.,	207	223	1
			-0.18	4990	7000	361	282	8870		4270	222	172	5550	3620	6210	000		
		17.00	Long	6280	7740	397	320	10470	4040	4810	248	217	7180	4990	7000	322	243	(
	7.000	00.00					0_0	10470	4910	5320	273	247	8060	6280	7740	361	306	1
	7.000	20.00	Short	2740	5440	460	320	4070						9200	7740	397	348	11
		23.00	Long	3830	6340	532	428	4870	2270	3740	316	234	4040	2740	5440			
		26.00	Long	5410	7240	604	502	6810	3270	4360	366	313	5810	3830	5440	460	331	4
						004	302	9620	4320	4980	415	367	7680		6340	532	442	6
	8.625	24.00	Short	1430	4290	555	207						. 550	5410	7240	604	519	g
		28.00	Long	2160	4930	636	337	2540	1370	2950	381	244	2440	1 400				
W-1		32.00	Long	3050	5710	732	478	3840	1880	3390	437	348	3340	1430	4290	. 5 5 5	346	2
00.01					0710	732	574	5420	2530	3930	503	417	4500	2160	4930	636	493	3
80 Dimensions,	Outside	Weight	Thread		Dime	ensions, in							1000	3050	5710	732	591	5
Torques and	Diameter,	T&C,	Туре	Wall	inside				Mak	-Up Ton	que	Hydro-						
Hydro-Test	inch	lb per ft		Thickness	Niskae Diameter	Drift (Coupling	Make-up		ft x lbs		Test						
		•		THORY ICOS	Digitieter		Outside	Loss (Optimum 1	Ainimum I	Maximum P	LOCALINA 1 COST						
Pressures							Diameter						1	ADI Dolla		.		
	4.500	9.50	Short	0.205	4.090	0.00-						psi ———		otobor 100	an 503,	Sixth Editio	on,	
		10.50	Short	0.224			5.000	2.000	1380	1040	1730	5800	من ا	croper 188	94 was u	sed to dete	rmine the	e
		11.60	Long	0.250	4.052	. .	5.000	2.625	1790	1340			113	roa hinhe	rues.			
			iy	0.200	4.000	3.875	5.000	3.000	2190	1640		6400 7100	2.	The vertice	al set de	pth was co	mouted	
	5.500	14.00	Short	0.244	5 045					. 3 10	£/40	7100	ua	ຫ ານ ພ ສ.6≥	'S ID. DAT	II S gollor		
		15.50	Long		5.012		6.050	2.875	2340	1760	2930 !		QI I	u salety t	actors of	1.125 10	and 4 o	
		17.00	_		4.950		6.050	3.500		2210		700	res	pectively.	for colla	pse, burst	and 1.8	
			Long	0.304	4.892	4.767				2510 2510		400	ter	nsion.	- Jone	Pac, Duigi	arKi	
	7.000	20.00	Oh and						0000	201U	4190 7	100	2	Drod				
		23.00	Short		6.456	6.331	7.656	3.125	3200	2400	4000		J. 1	h ideoor	are availa	able plain e	nd and	
		26.00	Long		6.366	6.250						000	QB	II IFOUU	s premiur	w couldects	QB1 and	d
		40.00	Long	0.362	6.276					3210		800	40	-				
	8.625	04.00	01			•			JUZU ;	3770	6280 6	600	4. /	As a servi	ce, IPSC	O offers ca	sina	
		24.00	Short		3.097	7.972 g	.625	3.000 ;	3370 :	\			stri	ng design	s upon re	equest.	-11·19	
		28.00 32.00	Long						-			900		-		,		
								7.500	476U S	(SDA)	F000							
	Martine .	32.00	Long	0.352	7.921	7.87 5 9	.625			_	5980 4. 7180 5:	500						

The information and data contained herein are accurate to our knowledge, based upon standard industry calculations. Buyers are encouraged to make their own evaluations of the above derived performance properties for their particular use. The specific warranty applicable to these goods is as contained in IPSCO's Order Acknowledgment, Conditions of Sale.



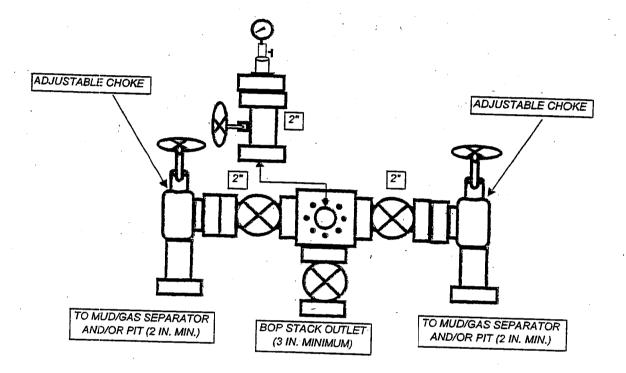
P.O. Box 18 Camanche. Inwa 52720 Phone: (563) 242-0000 Toll Free: 1-800-950-4772

400 505-3rd Street SW Caiyary, Alberta 12P 3E6 Phone: (403) 543-8000 Toll Free: 1-877-780-7560

P.O. Box 1670 Regina, Saskatchewan S4P 3C7 Phone: (306) 924-7700 Toll Free: 1-800-667-1616

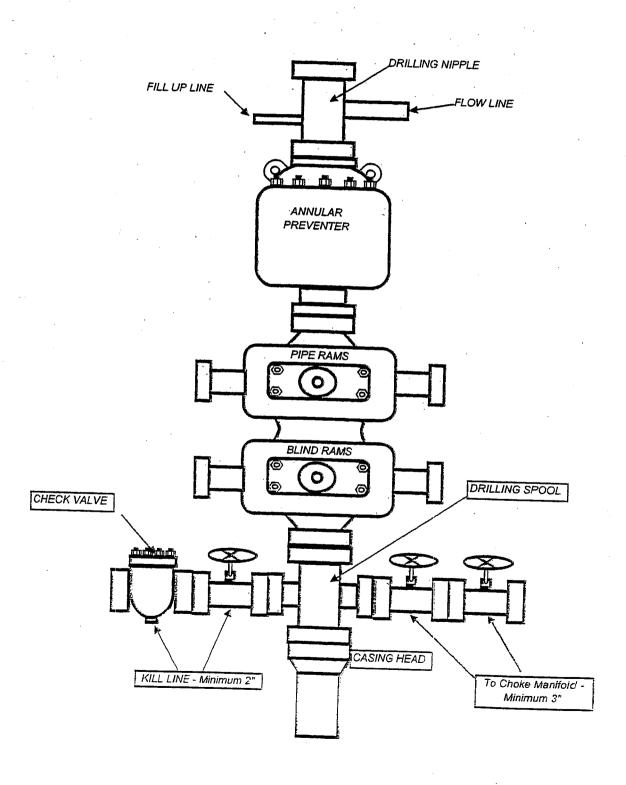
BILL BARRETT CORPORATION

TYPICAL 3,000 p.s.i. CHOKE MANIFOLD



BILL BARRETT CORPORATION

TYPICAL 3,000 p.s.i. BLOWOUT PREVENTER





Drilling Services

Proposal



#7-7-46 BTR

DUCHESNE COUNTY, UTAH

WELL FILE: PLAN 1

FEBRUARY 20, 2007



Bill Barrett Corporation

#7-7-46 BTR SEC 7 T4S R6W 2323' FSL, 2465' FEL DUCHESNE COUNTY, UTAH

600

1200

1800

2400

ASSUMED 15' KB ELEVATION

KB ELEVATION: 5930.30' GR ELEVATION: 5915.30'

CSG PT

				;	SECTION DE	TAILS				
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1 2 3 4 5	0.00 940.00 1935.56 5393.70 6389.26	0.00 0.00 14.93 14.93 0.00	23.84 23.84 23.84 23.84 23.84	0.00 940.00 1924.33 5265.67 6250.00	0.00 0.00 118.00 933.12 1051.12	0.00 0.00 52.14 412.33 464.47	0.00 0.00 1.50 0.00 1.50	0.00 0.00 23.84 0.00 180.00	0.00 0.00 129.01 1020.16 1149.17	KOP HOLD DROP HOLD
6	8731.26	0.00	23.84	8592.00	1051.12	464.47	0.00	23.84	1149.17	PBHIL

SITE DETAILS

#7-7-46 BTR SECTION 7-T4S-R6W

Site Centre Latitude: 40°08'46,300N Longitude: 110°36'17.830W

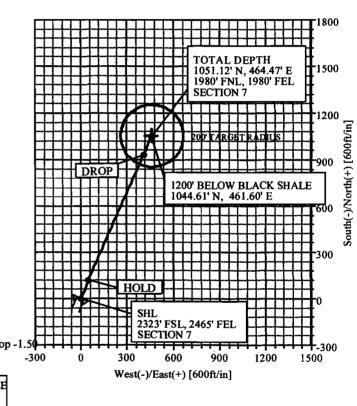
Ground Level: 5915.30
Positional Uncertainty: 0.00
Convergence: 0.57

FORMATION TOP DETAILS										
No.	TVDPath	MDPath	Formation							
1	3382.00	3444.19	TGR3							
2	4157.00	4246.28	DOUGLAS CREEK							
3	4817.00	4929.35	BLACK SHALE MARKER							
4	5092.00	5213.96	CASTLE PEAK							
5	5707.00	5844.42	WASATCH							
6	7617.00	7756.26	NORTH HORN							

CASING DETAILS

No. TVD MD Name Size

1 873.00 873.00 CSG PT 0.000



Azimuths to True North
MMagnetic North: 12.11°

Magnetic Field
Strength: 52720nT
Dip Angle: 65.90°
Date: 2/20/2007
Model: bggm2006

TOTAL CORRECTION TO TRUE NORTH: 12,11°

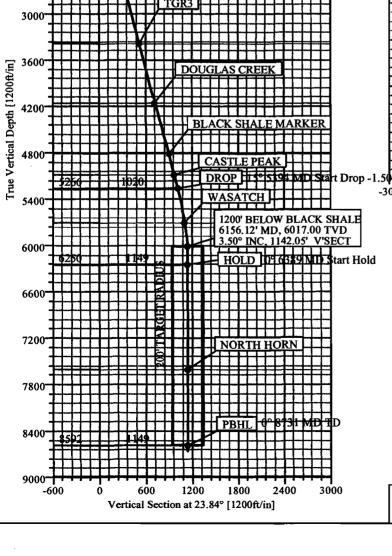


Weatherford

Plan: Plan #1 (7-7-46 BTR/1)

Created By: L WINCHELL

Date: 2/20/2007





Company: BILL BARRETT CORP Field:

DUCHESNE COUNTY, UTAH

#7-7-46 BTR Site: 7-7-46 BTR

Well: Wellpath: 1 Date: 2/20/2007

Co-ordinate(NE) Reference:

Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:

Time: 16:51:50

Page: Site: #7-7-46 BTR, True North

SITE 5930.3

Well (0.00N,0.00E,23.84Azi) Minimum Curvature

Db: Sybase

Field:

DUCHESNE COUNTY, UTAH

Map System: US State Plane Coordinate System 1983

Geo Datum: GRS 1980 Sys Datum: Mean Sea Level Map Zone:

Coordinate System:

Utah, Central Zone

Site Centre bggm2006

Site:

#7-7-46 BTR

SECTION 7-T4S-R6W

Site Position:

Geographic From: Position Uncertainty:

0.00 ft

Northing: Easting:

7223242.33 ft 1890618.18 ft

Latitude: Longitude: 40 8 46.300 N 36 17.830 W

North Reference:

Geomagnetic Model:

True

Ground Level:

5915.30 ft

Grid Convergence:

0.57 deg

0.00 ft

Well:

7-7-46 BTR

2323' FSL 2465' FEL +E/-W

0.00 ft +N/-S

Northing: Easting:

7223242.33 ft

Latitude:

Slot Name:

40 8 46.300 N

Position Uncertainty:

0.00 ft

0.00 ft

1890618.18 ft

Longitude:

Drilled From: Tie-on Depth: 110 36 17.830 W

Surface

Wellpath: 1

Well Position:

Current Datum: Magnetic Data:

Field Strength:

Vertical Section:

SITE

2/20/2007

52720 nT Depth From (TVD)

+N/-S

ft

0.00

Height 5930.30 ft

Above System Datum: Declination:

Mean Sea Level 12.11 deg 65.90 deg

Mag Dip Angle:

Direction

+E/-W ft

deg 23.84

ft 0.00

0.00 Date Composed:

2/20/2007

Principal: Yes

Plan:

Version: Tied-to:

From Surface

Plan Section Information

Plan #1

F	MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target	
	0.00	0.00	23.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
ľ	940.00	0.00	23.84	940.00	0.00	0.00	0.00	0.00	0.00	0.00		
	1935.56	14.93	23.84	1924.33	118.00	52.14	1.50	1.50	0.00	23.84		
	5393.70	14.93	23.84	5265.67	933.12	412.33	0.00	0.00	0.00	0.00		
	6389.26	0.00	23.84	6250.00	1051.12	464.47	1.50	-1.50	0.00	180.00		
	8731.26	0.00	23.84	8592.00	1051.12	464.47	0.00	0.00	0.00	23.84	PBHL	

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	Build deg/100ft	Turn deg/100ft	DLS deg/100ft		Comment
800.00	0.00	23.84	800.00	0.00	0.00	0.00	0.00	0.00	0.00		
873.00	0.00	23.84	873.00	0.00	0.00	0.00	0.00	0.00	0.00	CSG PT	
900.00	0.00	23.84	900.00	0.00	0.00	0.00	0.00	0.00	0.00		
940.00	0.00	23.84	940.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP	
1000.00	0.90	23.84	1000.00	0.43	0.19	0.47	1.50	0.00	1.50		
1100.00	2.40	23.84	1099.95	3.06	1.35	3.35	1.50	0.00	1.50		
1200.00	3.90	23.84	1199.80	8.09	3.58	8.85	1.50	0.00	1.50		
1300.00	5.40	23.84	1299.47	15.51	6.85	16.95	1.50	0.00	1.50		
1400.00	6.90	23.84	1398.89	25.30	11.18	27.66	1.50	0.00	1.50		
1500.00	8.40	23.84	1498.00	37.48	16.56	40.98	1.50	0.00	1.50		
1600.00	9.90	23.84	1596.72	52.03	22.99	56.88	1.50	0.00	1.50		
1700.00	11.40	23.84	1695.00	68.93	30.46	75.36	1.50	0.00	1.50		
1800.00	12.90	23.84	1792.75	88.18	38.96	96.41	1.50	0.00	1.50		
1900.00	14,40	23.84	1889.93	109.76	48.50	120.00	1.50	0.00	1.50		
1935.56	14.93	23.84	1924.33	118.00	52.14	129.01	1.50	0.00	1,50	HOLD	



Company: BILL BARRETT CORP

Field: DUCHESNE COUNTY, UTAH

 Site:
 #7-7-46 BTR

 Well:
 7-7-46 BTR

 Wellpath:
 1

Date: 2/20/2007 T Co-ordinate(NE) Reference:

Vertical (TVD) Reference:

Section (VS) Reference: Survey Calculation Method:

Time: 16:51:50 Page: : Site: #7-7-46 BTR, True North SITE 5930.3

Well (0.00N,0.00E,23.84Azi)

Minimum Curvature Db: Sybase

MD ft 2000.00 2100.00 2200.00	Incl deg	Azim deg	TVD ft	N/S	E/W	VS	Build	Turn	DLS	Comment
2100.00 2200.00	4400	_	11.	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	
2100.00 2200.00	14.93	23.84	1986.59	133.19	58.85	145.61	0.00	0.00	0.00	
2200.00	14.93	23.84	2083.21	156.76	69.27	171.38	0.00	0.00	0.00	
	14.93	23.84	2179.84	180.33	79.69	197.15	0.00	0.00	0.00	
2300.00	14.93	23.84	2276.46	203.90	90.10	222.92	0.00	0.00	0.00	
2400.00	14.93	23.84	2373.08		100.52	248.69	0.00	0.00	0.00	
										•
2500.00	14.93	23.84	2469.70	251.04	110.93	274.46	0.00	0.00	0.00	
2600.00	14.93	23.84	2566.33	274.62	121.35	300.23	0.00	0.00	0.00	
2700.00	14.93	23.84	2662.95	298.19	131.76	326.00	0.00	0.00	0.00	
2800.00	14.93	23.84	2759.57	321.76	142.18	351.77	0.00	0.00	0.00	
2900.00	14.93	23.84	2856.19	345.33	152.59	377.54	0.00	0.00	0.00	
3000.00	14.93	23.84	2952.82	368.90	163.01	403.31	0.00	0.00	0.00	
3100.00	14.93	23.84	3049.44	392.47	173.43	429.08	0.00	0.00	0.00	
3200.00	14.93	23.84	3146.06	416.04	183.84	454.85	0.00	0.00	0.00	
3300.00	14.93	23.84	3242.68	439.61	194.26	480.62	0.00			
3400.00	14.93	23. 84 23.84	3339.31	463.18	194.26 204.67	506.39	0.00	0.00 0.00	0.00 0.00	
3444.19	14.93	23.84	3382.00	473.60	209.27	517.78	0.00	0.00	0.00	TGR3
3500.00	14.93	23.84	3435.93	486.75	215.09	532.16	0.00	0.00	0.00	
3600.00	14.93	23.84	3532.55	510.33	225.50	557.93	0.00	0.00	0.00	
3700.00	14.93	23.84	3629.17	533.90	235.92	583.70	0.00	0.00	0.00	
3800.00	14.93	23.84	3725.80	557.47	246.33	609.47	0.00	0.00	0.00	
3900.00	14.93	23.84	3822.42	581.04	256.75	635.24	0.00	0.00	0.00	
4000.00	14.93	23.84	3919.04	604.61	267.17	661.01	0.00	0.00	0.00	
4100.00	14.93	23.84	4015.66	628.18	277.58	686.78	0.00	0.00	0.00	
		23.04					0.00			
4200.00 4246.28	14.93 14.93	23.84 23.84	4112.29 4157.00	651.75 662.66	288.00 292.82	712.55 724.47	0.00	0.00 0.00	0.00 0.00	DOUGLAS CREEK
4300.00	14.93	23.84	4208.91	675.32	298.41	738.32	0.00	0.00	0.00	
4400.00	14.93	23.84	4305.53	698.89	308.83	764.09	0.00	0.00	0.00	
4500.00	14.93	23.84	4402.15	722.46	319.24	789.86	0.00	0.00	0.00	
4600.00	14.93	23.84	4498.78	746.04	329.66	815.63	0.00	0.00	0.00	
4700.00	14.93	23.84	4595.40	769.61	340.07	841.40	0.00	0.00	0.00	
4800.00	14.93	23.84	4692.02	793.18	350.49	867.16	0.00	0.00	0.00	
4900.00	14.93	23.84	4092.02 4788.64	816.75	360.49	892.93	0.00	0.00	0.00	
4900.00 4929.35	14.93	23.84 23.84	4766.64 4817.00		363.96	900.50	0.00			DI ACK CHALL MADKED
	14.93			823.67			0.00	0.00	0.00	BLACK SHALE MARKER
5000.00	14.93	23.84	4885.27	840.32	371.32	918.70	0.00	0.00	0.00	
5100.00	14.93	23.84	4981.89	863.89	381.74	944.47	0.00	0.00	0.00	
5200.00	14.93	23.84	5078.51	887.46	392.15	970.24	0.00	0.00	0.00	
5213.96	14.93	23.84	5092.00	890.75	393.61	973.84	0.00	0.00	0.00	CASTLE PEAK
5300.00	14.93	23.84	5175.14	911.03	402.57	996.01	0.00	0.00	0.00	
5393.70	14.93	23.84	5265.67	933.12	412.33	1020.16	0.00	0.00		DROP
5400.00	14.84	23.84	5271.76	934.60	412.98	1021.78	-1.50	0.00	1.50	
5500.00	13.34	23.84	5368.75	956.86	422.82	1046.12	-1.50	0.00	1.50	
5600.00	11.84	23.84	5466.34	976.80	431.63	1040.12	-1.50	0.00	1.50	
5700.00	10.34	23.84 23.84		994.39	431.63	1087.15				
			5564.47				-1.50 4.50	0.00	1.50	
5800.00 5844.42	8.84 8.17	23.84 23.84	5663.07 5707.00	1009.63 1015.64	446.14 448.79	1103.81 1110.37	-1.50 -1.50	0.00 0.00	1.50 1.50	WASATCH
	0.17	20.07	0.07.00	1010.04	-70.13		-1.00	0.00	1.50	HAUNTON
5900.00	7.34	23.84	5762.07	1022.50	451.82	1117.88	-1.50	0.00	1.50	
6000.00	5.84	23.84	5861.41	1032.99	456.46	1129.35	-1.50	0.00	1.50	
6100.00	4.34	23.84	5961.01	1041.11	460.05	1138.22	-1.50	0.00	1.50	
6156.12	3.50	23.84	6017.00	1044.61	461.60	1142.05	-1.50	0.00	1.50	1200' TVD BELOW BLACK
6200.00	2.84	23.84	6060.81	1046.83	462.58	1144.48	-1.50	0.00	1.50	
6300.00	1.34	23.84	6160.75	1050.17	464.05	1148.12	-1.50	0.00	1.50	
6389.26	0.00	23.84	6250.00	1050.17	464.47	1149.17	-1.50	0.00	1.50	HOLD
6400.00	0.00	23.84 23.84	6260.74	1051.12	464.47	1149.17	0.00	0.00	0.00	HOLD



Company: BILL BARRETT CORP Field:

DUCHESNE COUNTY, UTAH

#7-7-46 BTR Site: Well: 7-7-46 BTR Wellpath: 1

Date: 2/20/2007

Time: 16:51:50

Co-ordinate(NE) Reference: Site: #7-7-46 BTR, True North Vertical (TVD) Reference:

SITE 5930.3

Section (VS) Reference: Survey Calculation Method: Well (0.00N,0.00E,23.84Azi) Minimum Curvature

Db: Sybase

Survey

MID ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	Build deg/100ft	Turn deg/100ft	DLS deg/100ft	Comment
6500.00	0.00	23.84	6360.74	1051.12	464.47	1149.17	0.00	0.00	0.00	
6600.00	0.00	23.84	6460.74	1051.12	464.47	1149.17	0.00	0.00	0.00	
6700.00	0.00	23.84	6560.74	1051.12	464.47	1149.17	0.00	0.00	0.00	
6800.00	0.00	23.84	6660.74	1051.12	464.47	1149.17	0.00	0.00	0.00	
6900.00	0.00	23.84	6760.74	1051.12	464.47	1149.17	0.00	0.00	0.00	
7000.00	0.00	23.84	6860.74	1051.12	464.47	1149.17	0.00	0.00	0.00	
7100.00	0.00	23.84	6960.74	1051.12	464.47	1149.17	0.00	0.00	0.00	
7200.00	0.00	23.84	7060.74	1051.12	464.47	1149.17	0.00	0.00	0.00	
7300.00	0.00	23.84	7160.74	1051.12	464.47	1149.17	0.00	0.00	0.00	
7400.00	0.00	23.84	7260.74	1051.12	464.47	1149.17	0.00	0.00	0.00	
7500.00	0.00	23.84	7360.74	1051.12	464.47	1149.17	0.00	0.00	0.00	
7600.00	0.00	23.84	7460.74	1051.12	464.47	1149.17	0.00	0.00	0.00	
7700.00	0.00	23.84	7560.74	1051.12	464.47	1149.17	0.00	0.00	0.00	
7756.26	0.00	23.84	7617.00	1051.12	464.47	1149.17	0.00	0.00	0.00	NORTH HORN
7800.00	0.00	23.84	7660.74	1051.12	464.47	1149.17	0.00	0.00	0.00	
7900.00	0.00	23.84	7760.74	1051.12	464.47	1149.17	0.00	0.00	0.00	
8000.00	0.00	23.84	7860.74	1051.12	464.47	1149.17	0.00	0.00	0.00	
8100.00	0.00	23.84	7960.74	1051.12	464.47	1149.17	0.00	0.00	0.00	
8200.00	0.00	23.84	8060.74	1051.12	464.47	1149.17	0.00	0.00	0.00	
8300.00	0.00	23.84	8160.74	1051.12	464.47	1149.17	0.00	0.00	0.00	
8400.00	0.00	23.84	8260.74	1051.12	464.47	1149.17	0.00	0.00	0.00	
8500.00	0.00	23.84	8360.74	1051.12	464.47	1149.17	0.00	0.00	0.00	
8600.00	0.00	23.84	8460.74	1051.12	464.47	1149.17	0.00	0.00	0.00	
8700.00	0.00	23.84	8560.74	1051.12	464.47	1149.17	0.00	0.00	0.00	
8731.26	0.00	23.84	8592.00	1051.12	464.47	1149.17	0.00	0.00	0.00	PBHL

Annotation

MD ft	TVD ft	
940.00	940.00	KOP
1935.56	1924.33	HOLD
5393.70	5265.67	DROP
6156.12	6017.00	1200' TVD BELOW BLACK SHALE
6389.26	6250.00	HOLD
8731.26	8592.00	PBHL

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
3444.19	3382.00	TGR3		0.00	0.00
4246.28	4157.00	DOUGLAS CREEK		0.00	0.00
4929.35	4817.00	BLACK SHALE MARKER		0.00	0.00
5213.96	5092.00	CASTLE PEAK		0.00	0.00
5844.42	5707.00	WASATCH		0.00	0.00
7756.26	7617.00	NORTH HORN		0.00	0.00

Casing Points

MID ft	TVD ft	Diameter in	Hole Size in	Name	**.
873.00	873.00	0.000	0.000	CSG PT	



Company: BILL BARRETT CORP Field: DUCHESNE COUNTY, UTAH

#7-7-46 BTR Site: 7-7-46 BTR Well:

Wellpath: 1

Date: 2/20/2007

Co-ordinate(NE) Reference:

Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:

Time: 16:51:50

Page: Site: #7-7-46 BTR, True North SITE 5930.3

Well (0.00N,0.00E,23.84Azi) Minimum Curvature D

Db: Sybase

Targets

	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft		Latitude> Min Sec		Longi Min	
PBHL -Circle (Radius: -Plan hit target	200)		8592.00	1051.12	464.47	7224298.041	891072.11	40	8 56.688 N	110	36 11	.848 V

BILL BARRETT CORPORATION

#7-7-46 BTR

LOCATED IN DUCHESNE COUNTY, UTAH **SECTION 7, T4S, R6W, U.S.B.&M.**



PHOTO: VIEW FROM LOCATION STAKE TO CORNER #5

CAMERA ANGLE: SOUTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: WESTERLY

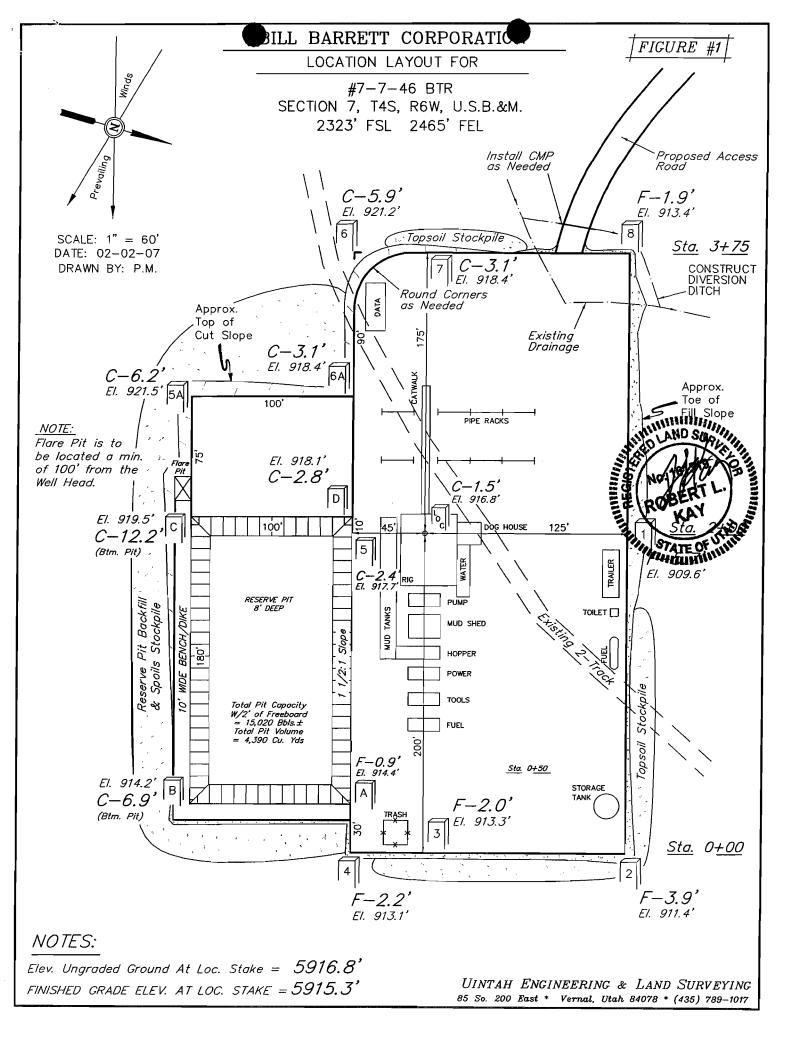


Uintah Engineering & Land Surveying 85 South 200 East Vernal, Utah 84078 435-789-1017 vels@uelsinc.com

LOCATION PHOTOS

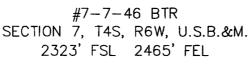
TAKEN BY: D.R. DRAWN BY: L.K. REVISED: 00-00-00

РНОТО



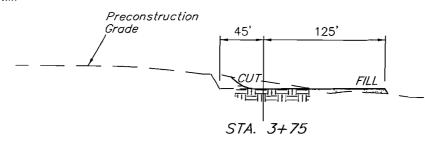
BILL BARRETT CORPORATI TYPICAL CROSS SECTIONS FOR X-Section Ш Scale 1" = 100

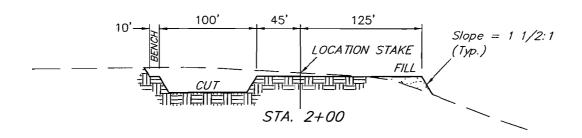
DATE: 02-02-07 DRAWN BY: P.M.

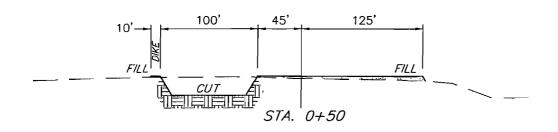


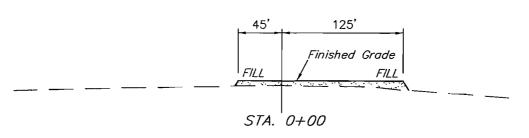
No. 1613'
ROP'

FIGURE #2









NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE YARDAGES

CUT

(12") Topsoil Stripping 3,770 Cu. Yds. Remaining Location 6,530 Cu. Yds.

> TOTAL CUT *10,300* CU.YDS.

> FILL 4,330 CU.YDS.

FILL QUANTITY INCLUDES 5% FOR COMPACTION

EXCESS MATERIAL

= 5,970 Cu. Yds.

Topsoil & Pit Backfill

= 5.970 Cu. Yds.

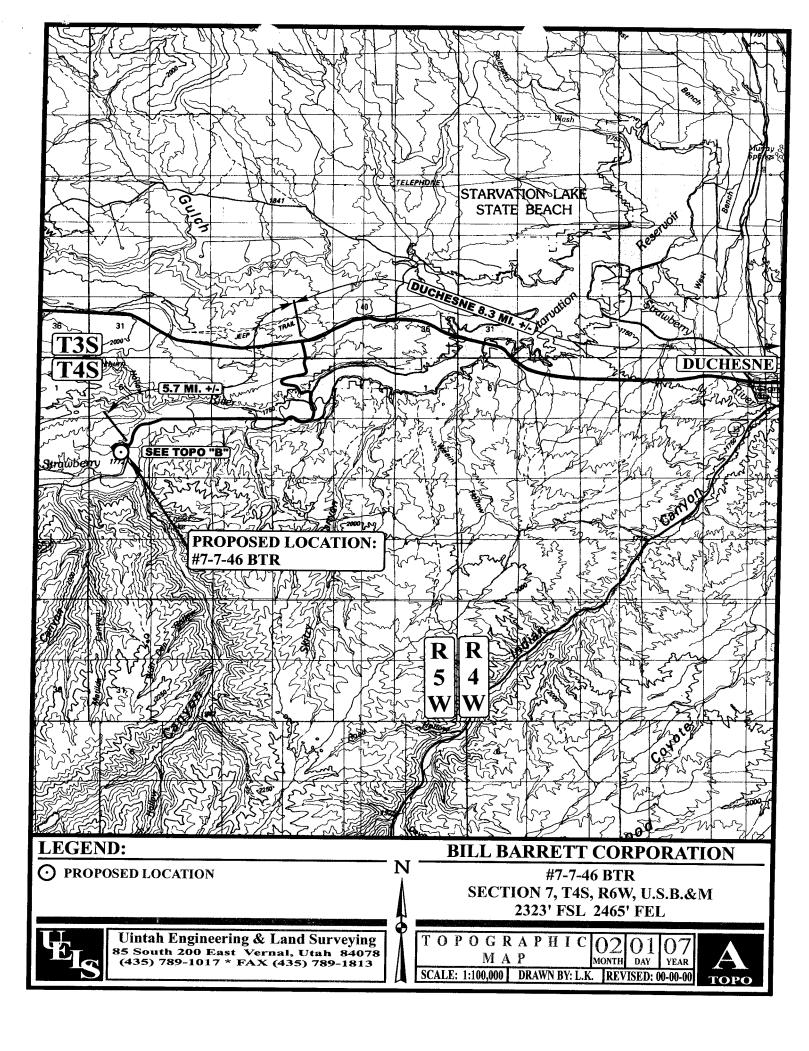
(1/2 Pit Vol.)

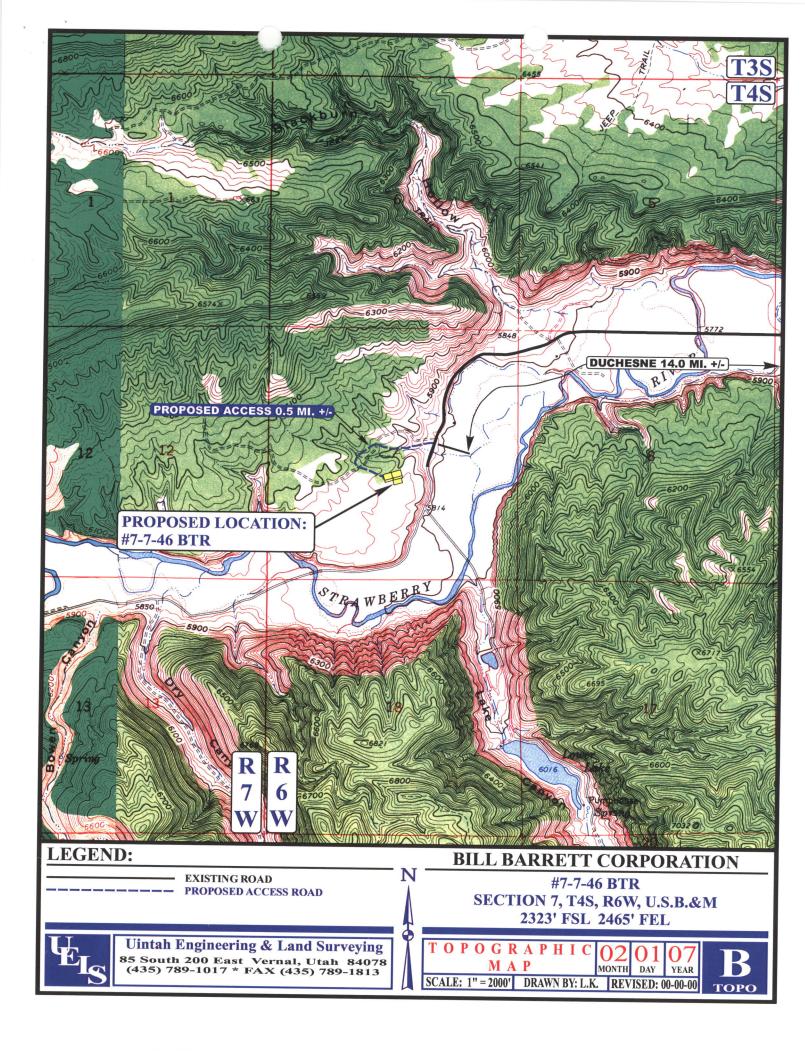
EXCESS UNBALANCE

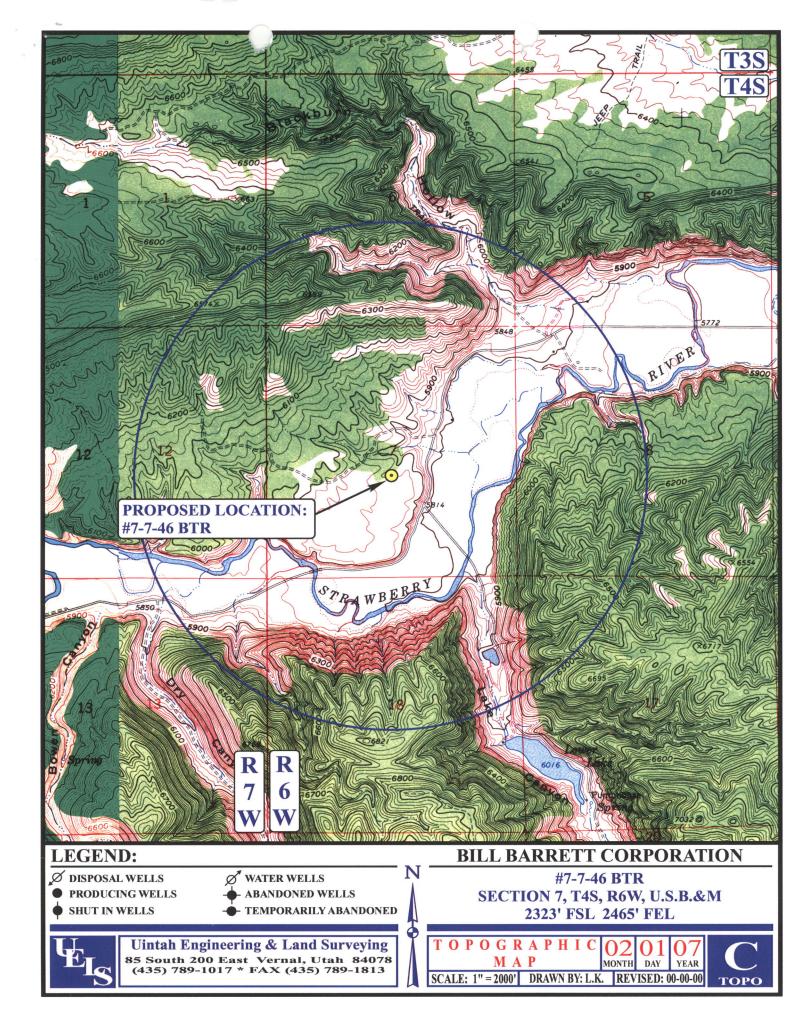
O Cu. Yds.

(After Interim Rehabilitation)

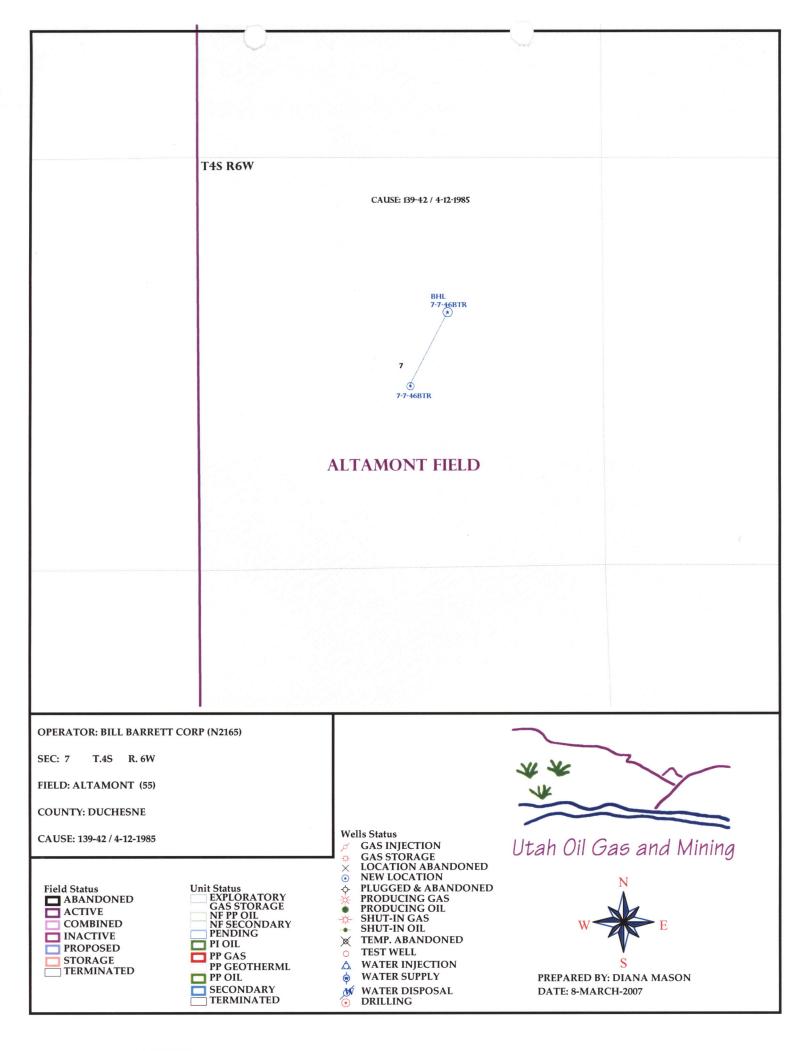
UINTAH ENGINEERING & LAND SURVEYING 85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017







APD RECEIVED: 03/02/2007	API NO. ASSIGNED: 43-013-33565
WELL NAME: 7-7-46BTR OPERATOR: BILL BARRETT CORP (N2165) CONTACT: REED HANCOCK	PHONE NUMBER: 303-312-8168
PROPOSED LOCATION:	INSPECT LOCATN BY: / /
NWSE 07 040S 060W SURFACE: 2323 FSL 2465 FEL	Tech Review Initials Date
BOTTOM: 1980 FNL 1980 FEL	Engineering
COUNTY: DUCHESNE	Geology
LATITUDE: 40.14670 LONGITUDE: -110.6044 UTM SURF EASTINGS: 533695 NORTHINGS: 44439	Surface
LEASE TYPE: 2 - Indian LEASE NUMBER: 20G0005608 SURFACE OWNER: 2 - Indian	PROPOSED FORMATION: NHORN COALBED METHANE WELL? NO
Plat Bond: Fed[] Ind[2] Sta[] Fee[] (No. WYB000040 Potash (Y/N) Oil Shale 190-5 (B) or 190-3 or 190-13 Water Permit (No. MUNICIPAL (No. MUNICIPAL) RDCC Review (Y/N) (Date:) Fee Surf Agreement (Y/N) Intent to Commingle (Y/N)	LOCATION AND SITING: R649-2-3. Unit: R649-3-2. General Siting: 460 From Qtr/Qtr & 920' Between Wells R649-3-3. Exception ✓ Drilling Unit Board Cause No: 139-42 Eff Date: 4-12-1985 Siting: 1000 fv. ext u.bdv \$\frac{2}{5}\$ 1320 fr. ext
COMMENTS:	
STIPULATIONS: 1-Geden Opprin	\(\alpha(\)





March 12, 2007

Ms. Diana Mason – Petroleum Technician State of Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 P.O. Box 145801 Salt Lake City, Utah 84114-5801

Re: Directional Drilling R649-3-11

Blacktail Ridge Area #7-7-46 BTR Well

Surface: 2323' FSL & 2465' FEL - NWSE, 7-T4S-R6W

Bottom Hole: 1980' FNL & 1980' FEL - SWNE, 7-T4S-R6W

Duchesne County, Utah

Dear Ms. Whitney:

Pursuant to the filing of Bill Barrett Corporation's ("BBC") Application for Permit to Drill ("APD") regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-11, pertaining to Directional Drilling and the Location and Siting of Wells.

- The above-mentioned proposed location is within our Lake Canyon Area.
- BBC is permitting this well as a directional well in order to minimize surface disturbance. By locating the well at the surface location and directionally drilling from this location, BBC will be able to utilize the existing road and pipelines in the area and also minimize surface disturbance.
- BBC hereby certifies it owns 100% of the working interest within 460 feet of the entire directional well bore.
- Our ownership rights under our Exploration and Development Agreement with the Ute Indian Tribe and UDC provides for the drilling of exploratory wells.
 Said agreement provides that we consult with these owners regarding the drilling of this well.

Based on the information provided, BBC requests that the permit be granted pursuant to R649-3-11. If you should have any questions or need further information, please contact me at 303-312-8129.

Sincerely,

RECEIVED
MAR 1 4 2007

Doug Gundry-White Senior Landman

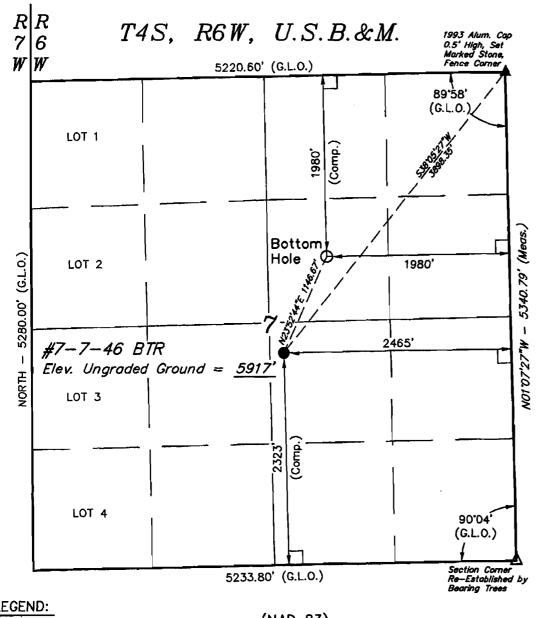
→099 18TH STREET

SUITE 2300

DENVER, CO 80202

303.293.9100

303.291.0420



LEGEND:

= 90' SYMBOL

= PROPOSED WELL HEAD.

= SECTION CORNERS LOCATED.

 Δ = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground)

(NAD 83)

LATITUDE = $40^{\circ}08'46.30"$ (40.146194)

LONGITUDE = 110'36'17.83" (110.604953)

(NAD 27)

LATITUDE = $40^{\circ}08'46.46"$ (40.146239)

LONGITUDE = $110^{\circ}36'15.27''$ (110.604242)

BILL BARRETT CORPORATION

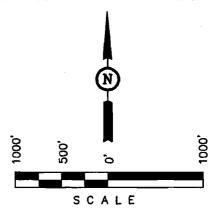
Well location, #7-7-46 BTR, located as shown in the NW 1/4 SE 1/4 of Section 7, T4S, R6W, U.S.B.&M., Duchesne County, Utah.

BASIS OF ELEVATION

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESNE SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED ON CAP AS BEING 6097 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE THE MET HAVE SUPERVISION AND THAT THE SAME THE THE SAME TH BEST OF MY KNOWLEDGE AND B

REVISED: 02-06-07

UINTAH ENGINEERING 85 SOUTH 200 EAST

VALUE SURVEYING VERNAL, UTAH 84078

(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: DATE DRAWN: 01-29-07 02-02-0				
D.R. Q.B. P.M.	G.L.O. PLAT				
WEATHER COLD	FILE BILL BARRETT	CORPORATION			



State of Utah

Department of Natural Resources

MICHAEL R. STYLER Executive Director

Division of Oil, Gas & Mining

JOHN R. BAZA
Division Director

JON M. HUNTSMAN, JR. Governor

> GARY R. HERBERT Lieutenant Governor

> > March 14, 2007

Bill Barrett Corporation 1099 18th Street, Suite 2300 Denver, CO 80202

Re:

7-7-46BTR Well, Surface Location 2323' FSL, 2465' FEL, NW SE, Sec. 7, T. 4 South, R. 6 West, Bottom Location 1980' FNL, 1980' FEL, SW NE, Sec. 7, T. 4 South, R. 6 West, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33565.

Sincerely,

Gil Hunt

Associate Director

Mil The

pab Enclosures

cc:

Duchesne County Assessor

Bureau of Land Management, Vernal District Office

Operator: Bill Barrett Corporation					
Well Name & Number	7-7-46I	3TR			
API Number:	43-013-	-33565			
Lease:	2OG0005608				
Surface Location: NW SE	Sec7_	T. 4 South	R. 6 West		
Bottom Location: SW NE	Sec7_	T. <u>4 South</u>	R. <u>6 West</u>		
	Conditions of A	nnroval			

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

• Contact Carol Daniels at (801) 538-5284

Notify the Division prior to commencing operations to plug and abandon the well.

Contact Dustin Doucet at (801) 538-5281

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
- 5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

RECEIVED VERNAL FIELD OFFICE FEB 2 8 2007

Form 3160-3 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT THE INTERIOR
BUREAU OF LAND MOMT

FORM APPROVED OMB No. 1004-0137 Expires March 31, 2007

5. Lease Serial No. BIA-EDA-2OG0005608

APPLICATION FOR PERMIT TO	DRILL OR	REENTER	N.	6. If Indian, Allotee UTE INDIAN		Name
la. Type of work:	ER			7 If Unit or CA Agr	eement, Na	ame and No.
lb. Type of Well: ☐Oil Well ☐Gas Well ☐Other	✓ Sing	gle ZoneMultip	ole Zone	8. Lease Name and # 7-7-46 BTR		
2 Name of Operator BILL BARRETT CORPORATION				9. API Well Na 43・013	ı 33	565
3a. Address 1099 18th Street, Suite 2300 Denver CO 80202	3b. Phone No. (303) 31	(include area code) 2-8168		10. Field and Pool, or Altamont	Explorator	ry
4. Location of Well (Report location clearly and in accordance with an At surface NWSE, 2323' FSL, 2465' FEL, Sect At proposed prod. zone SWNE, 1980' FNL, 1980' FEL, Sect	ion 7, T4S, R	6W		11. Sec., T. R. M. or I Section 7-T4S		•
14. Distance in miles and direction from nearest town or post office* Approximately 14 miles southwest of Duchesne, Utah				12. County or Parish Duchesne		13. State UT
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 2323' SHL; 1980' BHL	16. No. of act	res in lease	17. Spacin	g Unit dedicated to this	wdi	·
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. None w/in 1 mile 8731'			BIA Bond No. on file nwide Bond #WYB0	00040		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5917' Ungraded Ground	22 Approxim	ate date work will sta 06/01/2007	rt*	23 Estimated duration 45 days	on	
	24. Attach					
 The following, completed in accordance with the requirements of Onshort. Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 		4. Bond to cover the ltem 20 above).5. Operator certification.	he operation specific info	is form: ns unless covered by an ormation and/or plans a		`
25. Signature SIA HANDON	,	Printed/Typed) Reed Haddock			Date 02/2	26/2007
Title Permit Analyst	 -	_		·	_	
Approved by (Signature)		Printed Typed) TEAN KEND	eLA		Date	4.2007
Title Assistant Field Manager 1 ands & Mineral Resources Application approval does not warrant or certify that the applicant hold	Office	VERN	AL FI	ELD OFFICE	entitle the	annlicant to
conduct operations thereon. Conditions of approval if any are attached	s regulor equite	ore and to diose HEI	as are sure	goottoase willon would	on the tile	approunte

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on page 2)

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHEL

RECEIVED JUN 2 6 2007



UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE 170 South 500 East VERNAL, UT 84078 (435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Bill Barrett Corp. Location: NWSE, Sec. 7, T4S, R6W

Well No: 7-7-46 BTR Lease No: 20G0005608

API No: 43-013-33565 Agreement: N/A

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	435-781-4490	435-828-4470
Petroleum Engineer:	Michael Lee	435-781-4432	435-828-7875
Petroleum Engineer:	James Ashley	435-781-4470	435-828-7874
Petroleum Engineer:	Ryan Angus	435-781-4430	435-828-7368
Supervisory Petroleum Technician:	Jamie Sparger	435-781-4502	435-828-3913
NRS/Enviro Scientist:	Paul Buhler	435-781-4475	435-828-4029
NRS/Enviro Scientist:	Karl Wright	435-781-4484	
NRS/Enviro Scientist:	Holly Villa	435-781-4404	
NRS/Enviro Scientist:	Chuck MacDonald	435-781-4441	
NRS/Enviro Scientist:	Jannice Cutler	435-781-3400	
NRS/Enviro Scientist:	Michael Cutler	435-781-3401	
NRS/Enviro Scientist:	Anna Figueroa	435-781-3407	
NRS/Enviro Scientist:	Verlyn Pindell	435-781-3402	
NRS/Enviro Scientist:	Darren Williams	435-781-4447	
NRS/Enviro Scientist:	Nathan Packer	435-781-3405	
		Fax: 435-781-4410	

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

NOTIFICATION REQUIREMENTS

Location Construction
(Notify NRS/Enviro Scientist)
Location Completion
(Notify NRS/Enviro Scientist)
Spud Notice
(Notify Petroleum Engineer)
Casing String & Cementing
(Notify Supervisory Petroleum Technician)
BOP & Related Equipment Tests
(Notify Supervisory Petroleum Technician)
First Production Notice
(Notify Petroleum Engineer)

- Forty-Eight (48) hours prior to construction of location and access roads.
- Prior to moving on the drilling rig.
- Twenty-Four (24) hours prior to spudding the well.
- Twenty-Four (24) hours prior to running casing and cementing all casing strings.
- Twenty-Four (24) hours prior to initiating pressure tests.
- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

Page 2 of 7 Well Name: 7-7-46 BTR

6/21/2007

SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

General Surface COAs

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer AO. A report will be prepared by a BLM permitted paleontologist and submitted to the AO at the completion of surface disturbing activities.

Specific Surface COAs

- A 2403.31' by 30' foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- A qualified Archaeologist accompanied by a Tribal Technician will monitor trenching construction of pipeline.
- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipeline.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROWs.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you
 to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax
 Ordinance.
- Any deviation of submitted APDs and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.
- The Company will implement "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APDs and/or ROW permits/authorizations on their person(s) during all phases of construction.

Page 3 of 7 Well Name: 7-7-46 BTR 6/21/2007

 All vehicular traffic, personnel movement, construction/restoration operations shall be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.

- All personnel shall refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.
- The personnel from the Ute Tribe Energy & Minerals Department shall be notified shall cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- All mitigative stipulations contained in the Bureau of Indian Affairs Site Specific Environmental Assessment (EA) will be strictly adhered.
- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.
- Install culverts as needed along access road.
- Paint tanks Olive Black.

Page 4 of 7 Well Name: 7-7-46 BTR

6/21/2007

DOWNHOLE CONDITIONS OF APPROVAL

SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL

- Use 1" tubing to cement top 100 feet of surface casing with class G neat cement (1.18 cubic feet per sack).
- The top of the production casing cement shall extend a minimum of 200 feet above the 9 5/8 inch surface casing shoe.
- All casing strings below the conductor shall be pressure tested to 0.22 psi/ft or 1500 psi, whichever is greater, but not to exceed 70% of the internal yield strength of the casing.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- Blowout prevention equipment BOPE shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing
 water is encountered it must be sampled, analyzed, and a copy of the analyses submitted
 to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources such as Gilsonite, tar sands, oil shale, trona, etc. to the Vernal Field Office, in writing, within 5

Page 5 of 7 Well Name: 7-7-46 BTR 6/21/2007

working days of each encounter. Each report shall include the well name/number, well location, date and depth from KB or GL of encounter, vertical footage of the encounter and, the name of the person making the report along with a telephone number should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office
 on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well
 is completed.
- A cement bond log CBL will be run from the production casing shoe to the <u>top of cement</u> and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

Page 6 of 7 Well Name: 7-7-46 BTR

6/21/2007

OPERATING REQUIREMENT REMINDERS:

 All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" Oil and Gas Operations Report OGOR starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 303 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
 notified when it is placed in a producing status. Such notification will be by written
 communication and must be received in this office by not later than the fifth business day
 following the date on which the well is placed on production. The notification shall provide, as a
 minimum, the following informational items:
 - Operator name, address, and telephone number.
 - o Well name and number.
 - o Well location ¼¼, Sec., Twn, Rng, and P.M..
 - Date well was placed in a producing status date of first production for which royalty will be paid.
 - The nature of the well's production, i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons.
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees NTL 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events fires, accidents, blowouts, spills, discharges as specified in NTL 3A will
 be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be
 reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major
 Events" will be reported in writing within 15 days. "Minor Events" will be reported on the
 Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" BLM Form 3160-4 shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys,

Page 7 of 7 Well Name: 7-7-46 BTR

6/21/2007

sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples cuttings, fluid, and/or gas shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field
 Office Petroleum Engineers will be provided with a date and time for the initial meter calibration
 and all future meter proving schedules. A copy of the meter calibration reports shall be
 submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API
 standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All
 measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted
 to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs
 first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be
 adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively
 sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
 equipment shall be removed from a well to be placed in a suspended status without prior
 approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30
 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given
 before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" Form BLM 3160-5 must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

Form 3160-5 (February 2005)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

FORM APPROVED
OM B No. 1004-0137
Expires: March 31, 200

Lease Serial No. BIA-EDA-2OG0005608

SUNDRY NUTICES AN	ID REPORTS ON WELLS	
Do not use this form for prop abandoned well. Use Form 31	oosals to drill or to re-enter an 160 - 3 (APD) for such proposals.	6. If Indian, Allottee or Tribe Name UTE INDIAN TRIBE
	er instructions on reverse side.	7. If Unit or CA/Agreement, Name and/or No.
1. Type of Well	Other	N/A 8. Well Name and No.
2. Name of Operator Bill Barrett Corporation		# 7-7-46 BTR 9. API Well No.
a. Address	3b. Phone No. (include area code)	43-013-33565
1099 18th Street, Suite 2300, Denver, CO 80202 Location of Well (Footage, Sec., T., R, M, or Survey De.	303-312-8546	10. Field and Pool, or Exploratory Area Altamont
	11. County or Parish, State	
SHL: NWSE, 2323' FSL x 2465' FEL BHL: SWNE, 1980' FNL x 1980 FEL		Duchesne County, Utah
12. CHECK APPROPRIATE BOX	((ES) TO INDICATE NATURE OF NOTICE	REPORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	1
Acidize	Deepen Production	(Start/Resume) Water Shut-Off
✓ Notice of Intent ☐ Alter Casing	Fracture Treat Reclamation	— · · · ·
Subsequent Report Casing Repair		
Final Abandonment Notice Convert to Inject		ly Abandon posal
Bill Barrett Corporation (BBC) request approv Attached find the revised drilling plan for this		the n of
. I hereby certify that the foregoing is true and corre	ect ,	
Name (Printed/Typed) Reed Haddock	Title Permit Analyst	
Signature Wood Hadder	Date	06/28/2007
THIS SPACE	FOR FEDERAL OR STATE OFFI	CE USE
pproved by	Title	Date
onditions of approval, if any, are attached. Approval of the rtify that the applicant holds legal or equitable title to thou nich would entitle the applicant to conduct operations the	se rights in the subject lease Office reon.	
tle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, ates any false, fictitious or fraudulent statements or repres	make it a crime for any person knowingly and will sentations as to any matter within its jurisdiction.	fully to make to any department or a report of the third

(Instructions on page 2)

JUL 0 2 2007

Bill Barrett Corporation Drilling Program # 7-7-46 BTR Duchesne County, Utah

HAZARDOUS MATERIAL DECLARATION

WELL NO. # 7-7-46 BTR - LEASE NO. BIA 14-20-H62-5500

Bill Barrett Corporation guarantees that during the drilling and completion of the above referenced well, we will not use, produce, or store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Super Amendments and Reauthorization Act (SARA) of 1986.

Bill Barrett Corporation guarantees that during the drilling and completion of the above referenced well, we will use, produce, store, transport, or dispose less than the threshold planning quantity (TPQ) of any extremely hazardous substances as defined in 40 CFR 355.

Bill Barrett Corporation Drilling Program # 7-7-46 BTR Duchesne County, Utah

DRILLING PLAN

BILL BARRETT CORPORATION

#7-7-46 BTR

SHL: NWSE, 2323' FSL & 2465' FEL, Section 7-T4S-R6W BHL: SWNE, 1980' FNL & 1980' FEL, Section 7-T4S-R6W

Surface Owner: Tribal (Ute Indian Tribe)

Duchesne County, Utah

1 - 2. <u>Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals</u>

Formation	<u>Depth</u>
Duchesne River/Uinta	Surface
Green River	3,444'
Douglas Creek	4,246'
Black Shale	4,929'
Castle Peak	5,214'
Wasatch	5,844' *
North Horn	7,756' *
TD	9,000'

*PROSPECTIVE PAY

The Wasatch and the North Horn are primary objectives for oil/gas.

3. BOP and Pressure Containment Data

Depth Intervals	BOP Equipment				
0 – 900'	No pressure control required				
900' - TD 11" 3000# Ram Type BOP					
	11" 3000# Annular BOP				
- Drilling spool to	accommodate choke and kill lines;				
- Ancillary and che	oke manifold to be rated @ 3000 psi;				
* * *	ent and choke manifold rated at 3,000#. All BOP and BOPE tests will be in the requirements of onshore Order No. 2;				
	e State of Utah Division of Oil, Gas and Mining will be notified 24 hours in OP pressure tests.				
	s may be underneath the sub-structure of the rig if the drilling rig used is set up efficiently in this manner.				

4. <u>Casing Program</u>

	Hole		G DEPTH	Casing	Casing	Casing		a 11.1
L	<u>Size</u>	<u>(FROM)</u>	<u>(TO)</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>	<u>Condition</u>
	12 ¼"	surface	900'	9 5/8"	36#	J or K 55	ST&C	New
Ī	7 7/8"	surface	9,000'	5 1/2"	17#	N or I 80	LT&C	New

5. <u>Cementing Program</u>

9 5/8" Surface Casing	Approximately 310 sx Halliburton Light Premium with additives mixed at 12.3 ppg (yield = 1.43 ft ³ /sx) circulated to surface with 100% excess
5 ½" Production Casing	Approximately 170 sx Halliburton Hi-Fill Modified cement with additives mixed at 11.0 ppg (yield = 3.81 ft ³ /sx). Approximately 730 sx Halliburton Light Premium Plus cement with additives mixed at 13.5 ppg (yield = 1.58 ft ³ /sx). Top of cement to be determined by log and sample evaluation; estimated TOC 900°.

6. Mud Program

Interval	Weight	Viscosity	Fluid Loss (API filtrate)	Remarks
40' – 900'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
900' – TD	8.6 – 9.4	42-52	20 cc or less	DAP Polymer Fluid System

Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.

7. <u>Testing, Logging and Core Programs</u>

Cores	None anticipated;
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface). FMI & Sonic Scanner to be run at geologist's discretion.

8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 4399 psi* and maximum anticipated surface pressure equals approximately 2419 psi** (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

9. Auxiliary equipment

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
- c) Safety valve(s) and subs to fit all string connections in use
- d) Mud monitoring will be visually observed

^{*}Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

^{**}Maximum surface pressure = $A - (0.22 \times TD)$

Bill Barrett Corporation Drilling Program # 7-7-46 BTR Duchesne County, Utah

10. Location and Type of Water Supply

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W.

11. <u>Drilling Schedule</u>

Location Construction: A

Approximately July 15, 2007

Spud: Duration: Approximately August 1, 2007 20 days drilling time

45 days completion time

7-7-46 BTR Proposed Cementing Program

Job Recommendation	Surface Casing		
Lead Cement - (900' - 0')			
Halliburton Light Premium	Fluid Weight:	12.3	lbm/gal
2.0% Calcium Chloride	Slurry Yield:	1.43	ft ³ /sk
0.25 lbm/sk Ploy-E-Flake	Total Mixing Fluid:	10.6	Gal/sk
	Top of Fluid:	Ο'	
	Calculated Fill:	900'	
	Volume:	112.95	bbl
	Proposed Sacks:	310	sks

Job Recommendation	Recommendation Production Ca			
Lead Cement - (3746' - 900')				
Halliburton Hi-Fill Modified	Fluid Weight:	11.0	lbm/gal	
16.0% Bentonite	Slurry Yield:	3.81	ft ³ /sk	
0.75% Ecpnolite	Total Mixing Fluid:		Gal/sk	
7.5 lbm/sk Gilsonite	Top of Fluid:	900'	ŕ	
2.0 lbm/sk Granulite TR	Calculated Fill:	2,846'		
3.0% Salt	Volume:	109.77	bbl	
0.2% HR-7	Proposed Sacks:	170	sks	
Tail Cement - (9000' - 3746')				
Halliburton Light Premium Plus	Fluid Weight:	13.5	lbm/gal	
3.0% KCl	Slurry Yield:	1.58	ft ³ /sk	
1.0% Econolite	Total Mixing Fluid:	7.77	Gal/sk	
0.5% Halad®-322	Top of Fluid:	3,746'		
0.6% HR-5	Calculated Fill:	5,254'		
0.25 lbm/sk Flocele	Volume:	202.66	bbl	
1.0 lbm/sk Granulite	Proposed Sacks:	730	sks	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

ENTITY	AC	FION	FORM

Operator:

Bill Barrett Corporation

Operator Account Number: N3/65

Address:

1099 18th Street, Suite 2300

city Denver

state CO

zip 80202

Phone Number: (303) 312-8546

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301333565	# 7-7-46 BTR		NWSE	7	48	6W	Duchesne
Action Code	Current Entity Number	New Entity Number	y Spud Date		Entity Assignment Effective Date		
A	99999	16261	7	7/14/200	7	7/	26/07

Comments:

Spudding Operations will be conducted by Craig Roustabout Service, Inc. on 7/14/2007 @ 8:00am.

NHORN=WSTC

Well 2

API Number	well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity New Entity Number Number		Spud Date			Entity Assignment Effective Date	
Comments:					_	<u> </u>	

Well 3

API Number	Well	Well Name		Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number		Spud Date		Entity Assignment Effective Date	
Comments:						DE	CEIVED

DIV. OF OIL, GAS & MINING

ACTION CODES:

- A Establish new entity for new well (single well only)
- B Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- Re-assign well from one existing entity to a new entity
- E Other (Explain in 'comments' section)

ReedHaddock

Name (Please Print)

Signature

Permit Analyst

7/13/2007

Title

Date

Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

SUNDRY NOTICES AND REPORTS ON WELLS

	FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010
5. Lease Serial No. BIA-EDA-20G000	05608

6. If Indian, Allottee or Tribe Name

- 1		,	
1	Ute	Indian	Tribe

	orm for proposals (Use Form 3160-3 (A	Ute Indian Tribe			
	TIN TRIPLICATE - Other	r instructions on page 2.		7. If Unit of CA/Agree	ement, Name and/or No.
1. Type of Well	ell Other			8. Well Name and No. # 7-7-46 BTR	-
2. Name of Operator Bill Barrett Corporation		9. API Well No. 43-013-33565			
3a. Address 1099 18th Street, Suite 2300, Denver, CO 80202 (303) 312-8546			10. Field and Pool or Exploratory Area Altamont		
4. Location of Well <i>(Footage, Sec., T.,I</i> 2323' FSL x 2465' FEL NW/4, SE/4, Section 7, T4S, R6W	R.,M., or Survey Description)		11. Country or Parish, Duchesne County, U	
12. CHEC	K THE APPROPRIATE BO	X(ES) TO INDICATE NATUR	RE OF NOTIO	CE, REPORT OR OTHI	ER DATA
TYPE OF SUBMISSION		T	YPE OF ACT	TION	
Notice of Intent	Acidize Alter Casing	Deepen Fracture Treat		luction (Start/Resume) amation	Water Shut-Off Well Integrity
Subsequent Report	Casing Repair Change Plans	New Construction Plug and Abandon	Tem	omplete porarily Abandon	Other Weekly Drilling Report
Final Abandonment Notice 13. Describe Proposed or Completed Opthe proposal is to deepen directional Attach the Bond under which the work following completion of the involvent testing has been completed. Final Addermined that the site is ready for	Ily or recomplete horizontal ork will be performed or pro- ed operations. If the operation Abandonment Notices must be	ly, give subsurface locations and ovide the Bond No. on file with on results in a multiple completi	ed starting da I measured as BLM/BIA. F on or recomp	nd true vertical depths of Required subsequent rep pletion in a new interval,	f all pertinent markers and zones. orts must be filed within 30 days a Form 3160-4 must be filed once

Weekly drilling report from 9/5/07 - 9/11/2007.

(Instructions on page 2)

14. I hereby certify that the foregoing is true and correct.						
Name (Printed/Typed) Reed Haddock Tit	ile Permit Analyst					
Signature Lachtaddock Da	ute 09/11/2007					
THIS SPACE FOR FEDERAL OR STATE OFFICE USE						
Approved by						
	Title	Date				
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certif that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		BECEWED				
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person fictitious or fraudulent statements or representations as to any matter within its jurisdiction.	ı knowingly and willfull	y to make to any department of agency of the United States any false,				
(Instructions on page 2)		-JLT 1 0 Z001				



Well: #7-7-46 BTR

API#: 43-013-33565

Operations Date: 9/11/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Area: Black Tail Ridge

Report #:

Spud Date: 9/5/2007

Days From Spud: 6 Depth At 06:00:

287 JTS MIXED ALL CAT 3 132 JTS 20.00 155 JTS

16.60 SOME S-135 X3 G 105 X95 E-75 E375

2762

Morning Operations: TRIP IN HOLE

Estimated Total Depth:

FUEL 2877 USED 782 GAL

BOP DRILL 1MIN 90 SEC

9000

Remarks:

Time To Description

10:00 AM DRLG F/ 1925 TO 2160

10:30 AM

RIG SERVICE CHECK BOPS

10:00 PM 10:30 PM DRLG, 2160 TO 2762

12:00 PM

CIRC BOTTOM UP PUMP PILL

POOH

2:30 AM

DIR WORK CHANGE GAP SUB & MWD

3:30 AM

TIH 1011

5:00 AM 6:00 AM **DIR WORK** TRIP IN HOLE

Well: #7-7-46 BTR

API#: 43-013-33565

Operations Date: 9/10/2007

SAFETY MEETING ON THE DRIVE HOME &GAS KICKS

Surface Location: NWSE-7-4S-6 W 30th PM

Davs From Spud:

Area: Black Tail Ridge

Report #: 19

Depth At 06:00: 1925

Spud Date: 9/5/2007

Estimated Total Depth:

9000

Morning Operations: DRLG

Remarks:

287 JTS MIXED ALL CAT 3 132 JTS 20.00 155 JTS

16.60 SOME S-135 X3 G 105 X95 E-75 E375

FUEL 2877 USED 782 GAL

BOP DRILL 1MIN 90 SEC

Time To

Description

6:30 AM

RIG SERVICE

7:00 AM

RIG REPAIR (GRIND ON KELLY)

7:30 AM

DRLG 1015 TO 1068

9:00 AM

POOH F / MWD

11:00 AM

WORK MWD

12:00 PM

TRIP IN HOLE

12:30 PM

BREAK CIRC. SURVEY

6:00 AM

DRLG F/ 1068 TO 1926

Well: #7-7-46 BTR

API#: 43-013-33565

Operations Date: 9/9/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Area: Black Tail Ridge

Report #:

Spud Date: 9/5/2007

Days From Spud: 4

Depth At 06:00: Estimated Total Depth: 1015 9000

Morning Operations: DRLG

Remarks:

287 JTS MIXED ALL CAT 3 132 JTS 20.00 155 JTS 16.60 SOME S-135 X3 G 105 X95 E-75 E375

FUEL 3562 USED 548 GAL

Time To

Description

2:30 PM

NIPPLE UP & TEST BOPS PIPE & BLIND RAM CHOKE LINES ALL 3000 PSI F/10 MIN ANULAR 1500 PSI 10 MIN CASING 1500

F/30 MIN ALL OK

4:00 PM

CUT DRLG. LINE

10:30 PM

PU DIRECTIONAL TOOLS

11:30 PM

TRIP IN HOLE

2:00 AM

DRLG PLUG FLOAT CEMENT SHOE

5:00 AM

DRLG 912 TO 1006

5:30 AM

REPAIR RIG (NEW BUSHING STICKING ON KELLY)

6:00 AM

DRLG 1006 TO 1015



Well: #7-7-46 BTR

API#: 43-013-33565

Area: Black Tail Ridge

Operations Date: 9/8/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Report #:

17

Spud Date: 9/5/2007

Days From Spud: 3 Depth At 06:00:

287 JTS MIXED ALL CAT 3 132 JTS 20.00 155 JTS

912

Morning Operations: NIPPLE UP BOP

Estimated Total Depth:

16.60 SOME S-135 X3 G 105 X95 E-75 E375

FUEL 4110 USED 411 GAL

FUEL 4 521 USED 959 GAL

CEMENT / BOP TEST

9000

Remarks:

Time To

Description

7:30 AM

POOH LAY DOWN 8" DCS MOTOR

11:30 AM

RUN 9 5/8 CASING

1:00 PM

CEMENT W/ HALIBURTON

7:00 PM

W.O.C

6:00 AM

WELD ON HEAD & NIPPLE UP BOPS

Well: #7-7-46 BTR

Description

API#: 43-013-33565

Operations Date: 9/7/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Area: Black Tail Ridge

16

Spud Date: 9/5/2007

Days From Spud: 2

Report #:

Estimated Total Depth:

912 9000

Morning Operations: POOH TO RUN 9 5/8 CASING

Remarks:

287 JTS MIXED ALL CAT 3 132 JTS 20.00 155 JTS

CONTACT BLM @ 11:00 AM OF UP COMING CASING /

Depth At 06:00:

16.60 SOME S-135 X3 G 105 X95 E-75 E375

7:30 AM

HANG BLOCKS STRAIGHTEN DRLG LINE

7:00 AM

Time To

RIG SERVICE **DRLG 256 TO 440**

10:00 AM 10:30 AM

DEVIATION SURVEY 370' 3/4 *

10:30 PM

DRLG 440 TO 836

11:00 PM

CIRC. & SURVEY 805 2*

2:30 AM

DRLG 836 TO 912 CIRC BOTTOMS UP

3:00 AM

SHORT TRIP TO DCS

5:00 AM

CIRC BOTTOMS UP

5:30 AM 6:00 AM

POOH F/ SURFACE CASING

Well: #7-7-46 BTR

API#: 43-013-33565

Operations Date: 9/6/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Area: Black Tail Ridge

Report #: 15

Spud Date: 9/5/2007

Days From Spud:

Depth At 06:00:

256

Morning Operations: LD SURFACE JAR

Estimated Total Depth:

9000

Remarks:

287 JTS MIXED ALL CAT 3 132 JTS 20.00 155 JTS

16.60 SOME S-135 X3 G 105 X95 E-75 E375

FUEL 5480

Time To Description

10:30 AM

RIG UP

3:30 PM

DRLG F/ 40 TO 256

10:30 PM

WORK STUCK PIPE

2:00 AM

BREAK KELLY BELOW TABLE W O THEN PU XO & PUP

3:00 AM

FREE POINT STUCK AT 8" DCS

5:00 AM

PU SURFACE JAR WORK FREE

6:00 AM

LAY DOWN TOOLS PICK UP KELLY



Well: #7-7-46 BTR

API#: 43-013-33565

Operations Date: 9/5/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Area: Black Tail Ridge

Report #: 14

Spud Date: 9/5/2007

Davs From Spud:

Depth At 06:00:

Morning Operations: CHANGE MANAFOLD ON SHAKERS

Estimated Total Depth:

9000

Remarks:

Time To

Description

287 JTS MIXED ALL CAT 3 132 JTS 20.00 155 JTS

16.60 SOME S-135 X3 G 105 X95 E-75 E375

RIG UP 6:00 PM

STAND CONDUCTOR WORK ON MANIFOLD ON SHAKER

FUEL REC. 4500 USED 527 GAL

6:00 AM

6:00 AM

Well: #7-7-46 BTR

API#: 43-013-33565

Operations Date: 9/4/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Area: Black Tail Ridge

Report #:

Spud Date: 9/5/2007

Days From Spud:

Depth At 06:00:

Morning Operations: RIG UP

0

0

Estimated Total Depth:

9000

Remarks:

Time To

Description

RIG UP RAISE DRK. & SUB

287 JTS MIXED ALL CAT 3 132 JTS 20.00 155 JTS

16.60 SOME S-135 X3 G 105 X95 E-75 E375

CRANE COMING TO SET SHAKES THIS AM WILL GET PASON PHONE TODAY

DIESEL 1918 GAL

Well: #7-7-46 BTR

API#: 43-013-33565

Operations Date: 9/3/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Area: Black Tail Ridge

Report #:

Spud Date: 9/5/2007

Days From Spud:

Depth At 06:00:

Morning Operations: RIG UP SST #5

Estimated Total Depth:

9000

Remarks:

Time To

Description

6:00 PM

RIG UP SST#5

6:00 AM

NIGHT

Well: #7-7-46 BTR

API#: 43-013-33565

Operations Date: 9/2/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Area: Black Tail Ridge

Report #:

Spud Date: 9/5/2007

Days From Spud: 0

Depth At 06:00:

Morning Operations: MIRU SST #5

Estimated Total Depth:

9000

Remarks:

Time To

Description

6:00 PM

MOVE IN RIG UP SST #5

6:00 AM

NIGHT

Weil: #7-7-46 BTR

API#: 43-013-33565

Operations Date: 9/1/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Area: Black Tail Ridge

Report #:

Spud Date: 9/5/2007

Days From Spud: 0

Depth At 06:00:

Morning Operations: MI RIG

Estimated Total Depth:

9000

Remarks:

CALLED MATT BAKER W/ BLM AND DENNIS ENGRAM W/ UTAH STATE THAT WE MAY SPUD MONDAY NIGHT (3 DAY WEEK END) @ 11:15 AM FRIDAY THE

31 th

Time To Description

6:00 PM MI RIG 6:00 AM

NIGHT

Report By Wellcore

September 11, 2007 09:07 AM

Form 3160-5 (August 2007)

(Instructions on page 2)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED SEP 1 9 2

FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010

DIV. OF OIL, GAS & MINING Expire
BIA-EDA-20G0005608

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an

6. If Indian, Allottee or Tribe Name UTE INDIAN TRIBE

aparidoried well. C	Se FOIIII 3160-3 (AF	וטו such propos	oais.	
	IN TRIPLICATE - Other in	nstructions on page 2.	7. If Unit of CA	/Agreement, Name and/or No.
Type of Well	ell Other		8. Well Name at #7-7-46 BTR	nd No.
2. Name of Operator Bill Barrett Corporation			9. API Well No. 43-013-33565	
3a. Address 1099 18th Street, Suite 2300, Denver, CO 80202	!	3b. Phone No. (include area (303) 312-8546		ool or Exploratory Area
4. Location of Well <i>(Footage, Sec., T., K</i> SHL: NW/4 SE/4, 2323' FSL x 2465' FEL BHL: SW/4 NE/4, 1980' FNL x 1980' FEL	II	7	11. Country or I Duchesne Co	· · · · · · · · ·
12. CHEC	K THE APPROPRIATE BOX	K(ES) TO INDICATE NAT	URE OF NOTICE, REPORT OR	R OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION	
Notice of Intent	Acidize Alter Casing Casing Repair	Deepen Fracture Treat New Construction	Production (Start/Resu	water Shut-Off Well Integrity Other Sidetrack Wellbore
✓ Subsequent Report Final Abandonment Notice	Change Plans Convert to Injection	Plug and Abandon Plug Back	Temporarily Abandon Water Disposal	
the proposal is to deepen directions. Attach the Bond under which the was following completion of the involve testing has been completed. Final adtermined that the site is ready for Bill Barrett Corporation requests with made the determination to side track	ally or recomplete horizontally ork will be performed or proved operations. If the operation Abandonment Notices must be final inspection.) Itten approval of the sidetrack the well from 2,900' to TD 14th 2007. BBC submitted arly on the 15th following will be submitted arly on the 15th following will lipid to 3,187' MD. Imps for 2.5 hours. Iburton was not available), "G" cement mixed at 17.0 in its clean. It is clean, we, leaving kill string in hole ement plug from 2,724' to 2 is side tracked the wellbore.	y, give subsurface locations vide the Bond No. on file wan results in a multiple comple filed only after all required to the 7-7-46 BTR wells. Verbal approval to do a written procedure to the erbal approval: circulated through Big 4's ppg and 1.05 cuft/sk.	and measured and true vertical d th BLM/BIA. Required subsequ letion or recompletion in a new i ments, including reclamation, har below to extreme deviation w was received by Dominic S be Vernal Field Office detailing equipment.	ed work and approximate duration thereof. If lepths of all pertinent markers and zones, uent reports must be filed within 30 days interval, a Form 3160-4 must be filed once we been completed and the operator has while drilling at a depth of 4,179' BBC Spencer of Bill Barrett Corporation from the work to be performed. Below is a contact Dominic Spencer,
14. I hereby certify that the foregoing is t Name (Printed/Typed) Reed Haddock	rue and correct.	Title Pen	nit Analyst	
Signature MAL	addoc K	Date 09/	7/2007	
	THIS SPACE	FOR FEDERAL OR	STATE OFFICE USE	
Approved by Conditions of approval, if any, are attache that the applicant holds legal or equitable entitle the applicant to conduct operations Title 18 U.S.C. Section 1001 and Title 43	title to those rights in the subject thereon.	et lease which would Offic	9/28/0 T	ENGLISH ADDIOVER OF THE
fictitious or fraudulent statements or repr			1 Januar	The second secon

Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No. BIA-EDA-2OG0005608 6. If Indian, Allottee or Tribe Name Ute Indian Tribe

abandoned well.	Use Form 3160-3 (APL	D) for such p	roposals				
	T IN TRIPLICATE – Other ins	structions on pag	е 2.		7. If Unit of CA/Agreement, Name and/or No. N/A		
1. Type of Well	_						
Oil Well 🕢 Gas V	Vell Other				8. Well Name and No. # 7-7-46 BTR		
Name of Operator Bill Barrett Corporation					9. API Well No. 43-013-33565		
3a. Address	36.	Phone No. (incli	ude area code	2)	10. Field and Pool or	Explorate	ory Area
1099 18th Street, Suite 2300, Denver, CO 8020	(3	03) 312-8546			Altamont		
4. Location of Well (Footage, Sec., T., 2323' FSL x 2465' FEL NW/4, SE/4, Section 7, T4S, R6W	R.,M., or Survey Description)				11. Country or Parish Duchesne County,	·	
12. CHEC	CK THE APPROPRIATE BOX(I	ES) TO INDICAT	E NATURE (OF NOTIC	E, REPORT OR OTH	IER DAT	Α
TYPE OF SUBMISSION			TYPI	E OF ACTI	ON		
Notice of Intent	Acidize	Deepen		Produ	ction (Start/Resume)		Water Shut-Off
Nonce of filterit	Alter Casing	Fracture Tre	eat	Recla	mation		Well Integrity
Cubacquant Banant	Casing Repair	New Consti	ruction	Recor	nplete	\square	Other Weekly Drilling
✓ Subsequent Report	Change Plans	Plug and Al	bandon	Temp	orarily Abandon		Report
Final Abandonment Notice	Convert to Injection	Plug Back			Disposal		
determined that the site is ready for Weekly drilling report from 9/12/07 -	9/19/2007.						
14. I hereby certify that the foregoing is tr Name (Printed/Typed)	rue and correct.						
Reed Haddock		Title	Permit Ana	alyst			
Signature Hood	faddock	Date	09/19/2007	7			
	THIS SPACE FO	R FEDERAL	OR STA	TE OFF	ICE USE		
Approved by			777.1			.	
Conditions of approval, if any, are attached hat the applicant holds legal or equitable tintile the applicant to conduct operations to	tle to those rights in the subject lea		Title Office			Date	
Fitle 18 U.S.C. Section 1001 and Title 43 Incitious or fraudulent statements or representations.	U.S.C. Section 1212, make it a crir sentations as to any matter within	ne for any person k	nowingly and	willfully to	make to Was ar to	AFE	of the United States any false



Well: #7-7-46 BTR

API#: 43-013-33565

Operations Date: 9/19/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Area: Black Tail Ridge

Report #:

Spud Date: 9/5/2007

Days From Spud: 14 Depth At 06:00: 3852

Morning Operations: DRLG.

Estimated Total Depth:

9000

Remarks:

294 JTS MIXED DP.

21 DAYS WITH OUT A LTA

FUEL 4521 USED 685 GAL

SAFETY MEETING USEING PPE/ W.O. PUMPS

SPR 70 SPM 200 PSI @ 3789'

Time To

Description

12:00 PM

DRLG, 3280 - 3381

12:30 PM

CIRC PUMP PILL

5:30 PM

TRIP F/ PDC

6:00 PM

RIG SERVICE

6:30 PM

WASH - REAM 105'TO BOTTOM

6:00 AM

DRLG. F/ 3381 TO 3852

Well: #7-7-46 BTR

API#: 43-013-33565

Operations Date: 9/18/2007

Surface Location: NWSE-7-4S-6 W 30th PM

13

Area: Black Tail Ridge

Report #:

Spud Date: 9/5/2007 Days From Spud:

Depth At 06:00:

Estimated Total Depth:

3280 9000

Morning Operations: DRLG

Remarks:

294 JTS MIXED DP.

20 DAYS WITH OUT A LTA FUEL 5206 USED 1781 GAL

SAFETY MEETING MAKEING CONN.

SPR 60 SPM 160 PSI @ 3255

Time To Description

6:30 AM

TRIP IN HOLE

1:00 AM

DRLG.2943 - 3132

1:30 AM 6:00 AM RIG SERVICE DRLG 3132-3280

Well: #7-7-46 BTR

API#: 43-013-33565

Operations Date: 9/17/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Area: Black Tail Ridge

Report #: 26

Spud Date: 9/5/2007

Days From Spud: 12 Depth At 06:00:

2943

Estimated Total Depth:

9000

Morning Operations: TRIP IN HOLE

Remarks:

294 JTS MIXED DP

19 DAYS WITH OUT A LTA

FUEL 6987 USED 822 GAL

SAFETY MEETING WATCH OUT FOR EACH OTHER

JOHN SWANSAN BRUSED RIGHT ARM NLTA

Time To

Description

7:00 AM

TRIP IN HOLE

9:00 AM

CIRC & WORK ON MWD

12:00 AM

TIME DRILL 2900 TO 2943

2:30 AM

POOH

3:30 AM

DIR. WORK DROP ANGLE ON MOTOR TO 1.83

6:00 AM

TRIP IN HOLE

September 19, 2007 08:40 AM



Well: #7-7-46 BTR

API#: 43-013-33565

Operations Date: 9/16/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Area: Black Tail Ridge

Report #:

Spud Date: 9/5/2007

Days From Spud: 11

Depth At 06:00:

2900

Morning Operations: TRIP IN HOLE

Estimated Total Depth:

9000

Remarks:

294 JTS MIXED DP.

18 DAYS WITH OUT ANY ACC.

FUEL 7535 USED 547 GAL

SAFETY MEETING

Time To

Description

11:30 AM

WOC

1:00 PM

LD 27 JTS KILL STRING

4:00 PM

PU DIR. TOOLS

7:00 PM

TIH CHECK SURVEYS

11:00 PM

DRESS CEMENT F/ 2724 TO 2900

11:30 PM

CIRC BOTTOMS UP

3:30 AM

LD 19 JTS DP & POOH

4:30 AM

DIR. WORK INSTALL MWD & BEND MOTOR

6:00 AM

TRIP IN HOLE

Well: #7-7-46 BTR

API#: 43-013-33565

Operations Date: 9/15/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Area: Black Tail Ridge

Report #: 24

Spud Date: 9/5/2007

Days From Spud: 10

Depth At 06:00: 4179

Estimated Total Depth:

9000

Morning Operations: WOC

Remarks:

294 JTS MIXED DP.

17 DAYS WITH OUT ANY ACC.

FUEL 7535 USED 547 GAL

SAFETY MEETING

Time To Description

10:00 AM

DRLG F/ 4100-4179

11:30 AM

CIRC & WOO

12:30 PM

SHORT TRIP 5 STDS 8175 UNITS TRIP GAS

2:30 PM

CIRC & BRING MUD WT UP TO 9.4

6:30 PM

POOH

8:30 PM

LD DIR. TOOLS

10:30 PM

TRIP IN HOLE W/ OPEN DP. 34 STDS PU 2 SINGLES TO

3187.25

1:00 AM CIRC. & WAIT ON CEMENTERS

2:00 AM

SET 400' 200SX TYPE G PLUG / 3187 TO2787

3:00 AM

PULL 6 STDS CIRC / (WOC)

4:00 AM

PULL TO SURFACE PIPE SHUT IN WELL (WOC)

6:00 AM

woc

Days From Spud:



Well: #7-7-46 BTR

API#: 43-013-33565

Operations Date: 9/14/2007

Surface Location: NW/SE-7-4S-6 W 30th PM

Report #:

23

Spud Date: 9/5/2007

Area: Black Tail Ridge

9

Depth At 06:00:

Estimated Total Depth:

4100 9000

Mc rning Operations: DRLG.

Remarks:

294 JTS MIXED DP

16 DAYS WITH OUT ANY ACC.

FUEL 8083 USED 685 GAL

SAFETY MEETING TRIPPING & PPE

SPR 50 SPM 85 PSI AT 4052 '

ime To

Description

':30 AM

DRLG, 3832 - 3895

3:30 AM

CIRC.B U PUMP PILL CHECK FOR FLOW

2:30 PM

POOH CHANGE BIT & MOTOR

5:00 PM

TRIP IN HOLE 2.12 BENT MTR. 7.875 BIT

':00 PM

DRLG. F/ 3895-3926

':30 PM

RIG SERVICE

3:00 AM

ime To

3:00 AM

DRLG. F/ 3926- 4100

Morning Operations: DRLG

Well: #7-7-46 BTR

Surface Location: NWSE-7-4S-6 W 30th PM

Description

Spud Date: 9/5/2007

Days From Spud:

API#: 43-013-33565

Operations Date: 9/13/2007

Report #: 22

Area: Black Tail Ridge

Depth At 06:00:

3832

Estimated Total Depth:

9000

Remarks:

287 JTS MIXED ALL CAT 3 132 JTS 20.00 155 JTS

16.60 SOME S-135 X3 G 105 X95 E-75 E375

FUEL 8768 USED 685 GAL

SAFETY MEETING ON PROPER USE OF PPE

SPR 40 SPM 40 PSi 3832'

Well: #7-7-46 BTR

API#: 43-013-33565

Operations Date: 9/12/2007

Surface Location: NWSE-7-4S-6 W 30th PM

DRLG. 3013- 3832 SLIDING 90% OF THE TIME

Area: Black Tail Ridge

Report #: 21

Spud Date: 9/5/2007

7 Davs From Spud:

Depth At 06:00: Estimated Total Depth:

3013 9000

Morning Operations: DRLG.

Remarks:

287 JTS MIXED ALL CAT 3 132 JTS 20.00 155 JTS

16.60 SOME S-135 X3 G 105 X95 E-75 E375

FUEL 9453 USED 548 GAL

BOP DRILL 1MIN 90 SEC

SAFETY MEETING ON TRIPPING / SPINNING CHAIN

SPR. #1 40 SPM 85 PSI @ 2950'

Time To Description 6:30 AM

DRLG F/ 2762 TO 2794 7:30 AM

10:30 AM TOOH

7:00 PM

WAIT ON MWD TOOLS **UNLOAD & PU TOOLS**

8:00 PM 9:00 PM

TRIP IN HOLE

10:30 PM

INSTALL ROTATING HEAD & CIRC GAS OUT

11:00 PM

DIR.WORK CHECK TOOLS OK

12:00 PM

TRIP IN HOLE

12:30 AM 1:00 AM

CIRC GAS OUT WASH REAM 2762 - BOTTOM

6:00 AM

DRLG 2762 TO 3013

Form 3160-5 (August 2007)

(Instructions on page 2)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPRO	∀ED
OMB No. 1004-	0137
Fypires: July 31	201

5. Lease	Serial No.
BIALED	$\Lambda_{-}2\Omega\Omega\Omega\Omega\Omega\OmegaSS$

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this f	orm for proposals to d Use Form 3160-3 (APD)	rill or to re-enter an	Ute Ind	ian, Allottee or i	Tribe Name
	IN TRIPLICATE – Other insti	ructions on page 2.	7. If Un	t of CA/Agreen	ent, Name and/or No.
. Type of Well				Name and No.	
Oil Well Gas W	ell Other		# 7-7-4	6 BTR	
Name of Operator Bill Barrett Corporation			9. API V 43-013	Vell No. -33565	
a. Address 099 18th Street, Suite 2300, Denver, CO 8020	2	Phone No. (include area code 3) 312-8546) 10. Field Altamo	l and Pool or Ex nt	ploratory Area
. Location of Well <i>(Footage, Sec., T.,I</i> 323' FSL x 2465' FEL W/4, SE/4, Section 7, T4S, R6W		-,	I	ntry or Parish, S sne County, Ut	
12. CHEC	K THE APPROPRIATE BOX(E	S) TO INDICATE NATURE	OF NOTICE, REPO	ORT OR OTHER	R DATA
TYPE OF SUBMISSION		TYP	E OF ACTION		
Notice of Intent	Acidize Alter Casing Casing Repair	Deepen Fracture Treat New Construction	Production (St	art/Resume)	Water Shut-Off Well Integrity Other Weekly Drilling
✓ Subsequent Report Final Abandonment Notice	Change Plans Convert to Injection	Plug and Abandon Plug Back	Temporarily A Water Disposa		Report
testing has been completed. Final determined that the site is ready for Weekly drilling report from 9/19/07 -	final inspection.)	ed only after all requirements,	including reciamat	ion, nave been c	completed and the operator has
4. I hereby certify that the foregoing is t Name (Printed Typed) Reed Haddock	rue and correct.	Title Permit Ar	alyst		
Signature / DA HA	dlx K	Date 09/27/200)7		
	THIS SPACE FO	R FEDERAL OR STA	TE OFFICE U	JSE	
Approved by			,		
conditions of approval, if any, are attached that the applicant holds legal or equitable to that the applicant to conduct operations	itle to those rights in the subject leathereon.	ase which would Office	71.1.1.1		ate
Fitle 18 U.S.C. Section 1001 and Title 43 fictitious or fraudulent statements or representations.			d willfully to make t	o any department	
Instructions on page 2)		····			OCT 0 1 2007

Days From Spud:



Well: #7-7-46 BTR

API#: 43-013-33565

Operations Date: 9/27/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Report #:

36

Spud Date: 9/5/2007

Area: Black Tail Ridge

22

Depth At 06:00:

8149

Morning Operations: Drilling ahead

Estimated Total Depth:

9000

Time To

Description

5:30 PM

Drill 7.875" hole f/ 7770'ft to 7927'ft

6:00 PM

Rig service

6:00 AM

Drill 7.875" hole f/ 7927'ft to 8149'ft

Remarks: **DSLTA 27**

SAFETY MEETING: Catheads;

294 JTS MIXED DP.

Mudmotors:

(2)Hunting 6.75 AKO/.13 slick S/n:2011(53.5 hrs-In hole)

(1)Hunting 8" .24 Rev/gal- 19.5hrs

(2)Weatherford 6.75 AKO/stab:S/n 625-1385(Dirty)

625-

FUEL: 2466 GAL

USED: 1096 GAL

TOTAL FUEL USED:12,363 GAL

Daily water hauled:130 bbls Total water hauled:9352 bbls

SPR#1: 60SPM 380 PSI @ 8087'ft-10 MW

70SPM 498 PSI @8087'ft- 10 MW 80 SPM 610PSI @ 8087'ft-10 MW

SPR#2:

Accum:2700 psi Man:1500 psi Ann:900 psi

Well: #7-7-46 BTR

API#: 43-013-33565 Area: Black Tail Ridge Operations Date: 9/26/2007 Report #:

Surface Location: NWSE-7-4S-6 W 30th PM Spud Date: 9/5/2007

Depth At 06:00:

7770

35

Days From Spud: 21

Estimated Total Depth:

9000

Morning Operations: Drilling ahead

Time To

Description

2:00 PM

Drill 7.875" hole f/ 7073'ft to 7326'ft

2:30 PM

Rig service

6:00 AM

Drill 7.875" hole f/ 7326'ft to 7770'ft

Remarks:

DSLTA 27

SAFETY MEETING: Tripping pipe;

294 JTS MIXED DP.

Mudmotors:

(2)Hunting 6.75 AKO/.13 slick S/n:2011(29.5hrs-In hole)

2059

(1)Hunting 8" .24 Rev/gal-19.5 hrs

(2)Weatherford 6.75 AKO/stab:S/n 625-1385(Dirtv)

625-

FUEL: 2466 GAL USED: 1096 GAL

TOTAL FUEL USED:12,363 GAL

Daily water hauled:130 bbls Total water hauled:9352 bbls

SPR#1: 60SPM 290 PSI @ 7640'ft-9.9 MW

70SPM 498 PSI @7640'ft- 9.9MW

80 SPM 611PSI @ 7640'ft-9.9 MW

SPR#2:

Accum:2700 psi Man:1500 psi Ann:900 psi



Well: #7-7-46 BTR

API#: 43-013-33565

Area: Black Tail Ridge

Operations Date: 9/21/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Report #:

Spud Date: 9/5/2007

Days From Spud: 16 Depth At 06:00:

SAFETY MEETING: Painting sub structure; Tripping pipe

4669

Morning Operations: Directional drill 7.875" hole

Estimated Total Depth:

9000

Time To

Description

Remarks: **DSLTA 23**

4:00 PM

Directional drill 8.75" hole f/4383'ft to 4574'ft w/16 deg inc @ 30.29

4:30 PM

Rig service

294 JTS MIXED DP.

6:00 PM

Circulate bottoms up/Mix dry job.

FUEL: 3014 GAL

9:00 PM 10:00 PM POOH w/bit #5(RR#2)

USED: 685 GAL

10:30 PM

LD/8.75" PDC bit, Mudmotor; PU/7.875" PDC bit, Mudmotor. Change batteries in MWD:Install probe, orient directional tools SPR 70 SPM 235 PSI @ 4604'

11:00 PM TIH w/bit #6

12:00 AM

Cut & slip 80'ft drilling line

2:30 AM

TIH to 4500'ft

3:00 AM

PU kelly, stab rotating head rubber, circulate bottoms up-5400 units

trip gas-5'ft-6'ft flare.

3:30 AM

Wash & ream 75'ft to bottom. Gas units @ 500 u

6:00 AM

Directional drill 7.875" hole f/ 4574'ft to 4669,ft w/14.50 deg

inc@30.67 az.

Well: #7-7-46 BTR

API#: 43-013-33565

Operations Date: 9/20/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Area: Black Tail Ridge

Report #: 29

4383

Spud Date: 9/5/2007

Days From Spud:

15

Depth At 06:00:

Estimated Total Depth:

9000

Morning Operations: DRLG.

Remarks:

294 JTS MIXED DP.

22 DAYS WITH OUT A LTA

FUEL 3699 USED 822 GAL

SAFETY MEETING ATTITUDE ON JOB PAINTING

SPR 70 SPM 235 PSI @ 4320'

2:00 AM

Time To

5:30 PM

6:00 PM

DRLG.4070 - 4320

RIG SERVICE

DRLG. 3852 - 4070

Description

2:30 AM

SERVICE RIG CHECK B.O.P.

6:00 AM

DRLG, 4320 TO 4383

API#: 43-013-33565

Operations Date: 9/19/2007

Well: #7-7-46 BTR

Area: Black Tail Ridge

Report #: 28

Surface Location: NWSE-7-4S-6 W 30th PM

Days From Spud: 14

Depth At 06:00: 3852

Spud Date: 9/5/2007

Estimated Total Depth:

9000

Morning Operations: DRLG.

Remarks:

294 JTS MIXED DP.

21 DAYS WITH OUT A LTA **FUEL 4521 USED 685 GAL**

SAFETY MEETING USEING PPE/ W.O. PUMPS

SPR 70 SPM 200 PSI @ 3789'

Time To

Description

12:00 PM

DRLG. 3280 - 3381

12:30 PM

CIRC PUMP PILL

5:30 PM

TRIP F/ PDC

6:00 PM

RIG SERVICE

6:30 PM

WASH - REAM 105'TO BOTTOM

6:00 AM

DRLG. F/ 3381 TO 3852



Well: #7-7-46 BTR

API #: 43-013-33565

Operations Date: 9/23/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Area: Black Tail Ridge Report #:

32

Spud Date: 9/5/2007

Days From Spud: 18

Depth At 06:00:

5933

Morning Operations: Circulating gas out

Estimated Total Depth:

9000

Time To

Description

10:30 AM

Directional drill 7.875" hole f/5212'ft to 5437'ft w/ 8.06 deg inc. @

25.54 az

2:30 PM

Circulate & raise mud wt to 9.8ppg, 7500 units background gas.On

buster-4' to 8' lazy flare. Oil and crude oil tar to surface. Consistency of taffy.Formation -Castle Peak

2:00 AM

Directional drill 7.875" hole f/ 5437'ft to 5933'ft w/ 3.88 deg inc @

27,17 az.

6:00 AM

Circulate gas out- 2am depth/5933'ft-10,500 units gas to

surface. Circulating through gas buster w/ 6' to 8'ft flare. Raising mud wt. 1/10th at a time.Losing 10 bbls mud/hr to hole.Background gas

6500 to 6800 units steady.

Remarks:

DSLTA 24

SAFETY MEETING: Driving to & frm work; Using catline.

294 JTS MIXED DP.

Mudmotors:

(2)Hunting 6.75 AKO/.13 slick S/n:2011

(1)Hunting 8" .24 Rev/gal-19.5 hrs

(2)Weatherford 6.75 AKO/stab:S/n 625-1385(

FUEL: 5343 GAL

USED: 1096 GAL

TOTAL FUEL USED:10,582 GAL

Daily water hauled: 1560bbls Total water hauled:9222bbls

SPR#1: 50 SPM 130 PSI @ 5933'ft-9.8 MW

60SPM 230 PSI @ 5933'ft-9.8 MW

Accum:2800 psi Man:1450 psi Ann:850 psi

Well: #7-7-46 BTR

API #: 43-013-33565

Operations Date: 9/22/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Area: Black Tail Ridge

Report #: 31

Spud Date: 9/5/2007

Days From Spud: 17

Estimated Total Depth:

5212 9000

Morning Operations: Directional drilling 7.85" hole

Remarks:

DSLTA 23

SAFETY MEETING: Painting sub structure; Tripping pipe

Depth At 06:00:

294 JTS MIXED DP.

Description

Time To 12:00 PM

Directional drill 7.875"hole f/ 4669'ft to 4889'ft w/12.88 deg inc @ 35.79 az

1:00 PM

Rig service-Repair rotary driveline

5:00 PM

Directional drill 7.875" hole f/4889'ft to 4927'ft w/12.31 deg inc

@33.54 az

6:00 PM

Raise mud wt from 9.3 to 9.5 to kill 3500 units background gas.

6:00 AM

Directional drill 7.875" hole f/ 4927'ft to 5212'ft w/11.50 deg

inc.@25.92 az

Mudmotors:

(2)Hunting 6.75 AKO/.13 slick S/n:2011

(1) Hunting 8" .24 Rev/gal-19.5 hrs

(2)Weatherford 6.75 AKO/stab:\$/n 625-1385

625-

FUEL: 2192 GAL

USED: 822 GAL

TOTAL FUEL USED:9486 GAL

Daily water hauled: 1560bbls Total water hauled:9222bbls

SPR#1: 70 SPM 235 PSI @ 4604'

SPR#2:

Accum:2800 psi Man:1450 psi Ann:900 psi



Well: #7-7-46 BTR

inc@198.18az

API#: 43-013-33565

Operations Date: 9/25/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Report #:

34

Spud Date: 9/5/2007

Area: Black Tail Ridge

20

Depth At 06:00:

7073

Morning Operations : Drill ahead

Estimated Total Depth:

9000

Time To Description Remarks:

DSLTA 26

SAFETY MEETING: Gas kicks; Commuting to work

294 JTS MIXED DP.

11:00 AM

9:30 AM

Circulate bottoms up;mix & pump dry job. Set kelly back.

Directional drill 7.875" hole f/ 6820'ft to 6915'ft w/.87deg

Days From Spud:

Mudmotors: (2) Hunting 6.75 AKO/.13 slick S/n:2011(6.5hrs-In hole)

3:30 PM POOH w/bt #6

2059 (1)Hunting 8" .24 Rev/gal-19.5 hrs

Change mud motor, bit; replace batteries in MWD; Set AKO to 1.5

(2)Weatherford 6.75 AKO/stab:S/n 625-1385

7:00 PM 8:00 PM

9:00 PM

6:00 AM

5:30 PM

TIH to 4000'ft-PU kelly & break circulation.

FUEL: 3562 GAL USED: 822 GAL

Circulate bottoms up@ 4000'ft-15'ft flare on buster.2000-7700 units

TOTAL FUEL USED:12,363 GAL

gas.

TIH to 6915'ft-PU kelly & break circulation.

Daily water hauled: 130 bbls

Circulate bottoms up @ 6915'ft-25'ft to 30'ft flare from BU gas-On 11:30 PM

Total water hauled:9352 bbls

buster. 3000 to 7000 units gas

deg.;Orient directional tools.

SPR#1: 50 SPM 180 PSI @ 6661'ft-9.9 MW 60SPM 290 PSI @ 6661'ft-9.9 MW

Drill 7.875" hole f/ 6915'ft to 7073'ft w/ 1.44 deg inc @ 191.79 az

Accum:2800 psi Man:1450 psi Ann:850 psi

Well: #7-7-46 BTR

API#: 43-013-33565

Operations Date: 9/24/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Area: Black Tail Ridge

33 Report #:

Spud Date: 9/5/2007

Days From Spud:

Depth At 06:00:

6820

Morning Operations: Drilling ahead

Estimated Total Depth:

9000

Remarks:

DSLTA 25

SAFETY MEETING: Gas kicks; Commuting to work

294 JTS MIXED DP.

Time To 7:00 AM Description

Circulate & raise mud wt to 10./ppg-9500 units background gas due to oil/condensate coming from wellbore. Decided gas readings were

19

elevated due to heavy liquids-Propane, butanes. methanes. Mud wt at 10.0 was beginning to lose mud to formation. Lowered mud wt to 9.8

to 9.9.Losses slowed.Maintain mud wt @9.8

5:30 PM

Directional drill 7.875" hole f/ 5933'ft to 6293 'ft, w/.97 deg inc @

az-Vertical.Rotating w/o sliding.

6:00 PM

Ria service

6:00 AM

Directional drill 7.875" hole f/ 6293'ft to 6820'ft w/1.69 deg inc. @

171.29 az

Mudmotors:

(2)Hunting 6.75 AKO/.13 slick S/n:2011

(1)Hunting 8" .24 Rev/gal-19.5 hrs

(2)Weatherford 6.75 AKO/stab:S/n 625-1385(

625-

FUEL: 4384 GAL USED: 959GAL

TOTAL FUEL USED:11,541 GAL

Daily water hauled: 1560bbls Total water hauled:9222bbls

SPR#1: 50 SPM 180 PSI @ 6661'ft-9.9 MW 60SPM 290 PSI @ 6661'ft-9.9 MW

Accum:2800 psi Man:1450 psi Ann:850 psi

Form 3160-5 (August 2007)

(Instructions on page 2)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED OMB No. 1004-0137

Expires: July 31, 2010 5. Lease Serial No. BIA-EDA-20G0005608

6. If Indian, Allottee or Tribe Name

SUNDRY NOTICES AND REPORTS ON WELLS

		drill or to re-enter an PD) for such proposals	Ute India	an Tribe	
	IN TRIPLICATE - Other in	nstructions on page 2.	7. If Unit	of CA/Agreemen	nt, Name and/or No.
1. Type of Well ☐ Oil Well ☐ Gas Well ☐ Other			8. Well N # 7-7-46	lame and No.	
2. Name of Operator Bill Barrett Corporation			9. API W 43-013-:	ell No.	ng gray and
3a. Address		Bb. Phone No. (include area code		and Pool or Expl	loratory Area
1099 18th Street, Suite 2300, Denver, CO 80202	:	(303) 312-8546	Altamon	•	
4. Location of Well (Footage, Sec., T., R 2323' FSL x 2465' FEL NW/4, SE/4, Section 7, T4S, R6W	.,M., or Survey Description)		I	try or Parish, Sta ne County, Utal	
12. CHEC	K THE APPROPRIATE BOX	(ES) TO INDICATE NATURE	OF NOTICE, REPO	RT OR OTHER	DATA
TYPE OF SUBMISSION		ТҮР	E OF ACTION		
Notice of Intent	Acidize Alter Casing Casing Repair	Deepen Fracture Treat New Construction	Production (Statement Reclamation Recomplete		Water Shut-Off Well Integrity ✓ Other Weekly Drilling
Subsequent Report	Change Plans	Plug and Abandon	Temporarily At	•	Report
Final Abandonment Notice	Convert to Injection	Plug Back	Water Disposal		
following completion of the involve testing has been completed. Final A determined that the site is ready for Weekly drilling report from 9/27/07 -	Abandonment Notices must be final inspection.) 10/3/2007. This is the final	e filed only after all requirements			
Name (Printed/Typed)	ue and correct.	The Descrit A			
Reed Haddock	1 11 12	Title Permit A	ialyst		
Signature LOOL	faddock	Date 10/03/20	07	· · · · · · · · · · · · · · · · · · ·	
•	THIS SPACE	FOR FEDERAL OR STA	ATE OFFICE U	SE	
Approved by					
Conditions of approval, if any, are attached that the applicant holds legal or equitable tentitle the applicant to conduct operations	itle to those rights in the subject thereon.	t lease which would Office		Date	
Title 18 U.S.C. Section 1001 and Title 43	U.S.C. Section 1212, make it a		d willfully to make to	any department o	r a RECEINGER any false

OCT 0 9 2007

Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

5. Lease Serial No. BIA-EDA-20G0005608

6. If Indian, Allottee or Tribe Name

Ute Indian Tribe

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals

abandoned well. U	lse Form 3160-3 <u>(</u> A	PD) for such pr	oposals.			
ODMIT IN THE EIGHT MISHOUNTS ON Page 2.				7. If Unit of CA/Agreement, Name and/or No.		
1. Type of Well Oil Well Gas Wo	ell Other			8. Well Name and No. # 7-7-46 BTR		
2. Name of Operator Bill Barrett Corporation	<u>.</u>			9. API Well No. 43-013-33565		
3a. Address 1099 18th Street, Suite 2300, Denver, CO 80202		3b. Phone No. (include) (303) 312-8546	le area code)	10. Field and Pool or E	Exploratory Area	
4. Location of Well (Footage, Sec., T.,R 2323' FSL x 2465' FEL NW/4, SE/4, Section 7, T4S, R6W	.,M., or Survey Description	<u> </u>		11. Country or Parish, Duchesne County, U		
12. CHECI	C THE APPROPRIATE BO	DX(ES) TO INDICATE	NATURE OF NOTIO	CE, REPORT OR OTHE	ER DATA	
TYPE OF SUBMISSION			TYPE OF ACT	TON		
Notice of Intent	Acidize Alter Casing	Deepen Fracture Trea	_	uction (Start/Resume)	Water Shut-Off Well Integrity	
Subsequent Report	Casing Repair Change Plans	New Constru		omplete porarily Abandon	Other Weekly Drilling Report	
Final Abandonment Notice	Convert to Injection	Plug Back	Wate	er Disposal		
the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.) Weekly drilling report from 9/27/07 - 10/3/2007. This is the final weekly drilling report. **Weekly drilling report from 9/27/07 - 10/3/2007.** **Para Label School						
14. I hereby certify that the foregoing is to Name (Printed/Typed) Reed Haddock		Title	Permit Analyst			
Signature LOOK	faddock	Date	10/03/2007			
	THIS SPACE	FOR FEDERAL	OR STATE OF	FICE USE		
Approved by						
Conditions of approval, if any, are attached that the applicant holds legal or equitable tentitle the applicant to conduct operations	itle to those rights in the subj thereon.	ect lease which would	Title Office		Date	
Title 18 U.S.C. Section 1001 and Title 43 fictitious or fraudulent statements or repre	U.S.C. Section 1212, make it sentations as to any matter w	a crime for any person k	nowingly and willfully	to make to any departmen	nt or a complete the any false.	



Well: #7-7-46 BTR

API#: 43-013-33565

Operations Date: 10/3/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Area: Black Tail Ridge

Report #:

Spud Date: 9/5/2007

Days From Spud:

Depth At 06:00:

Morning Operations: RELEASE RIG AT 6:00 AM 10/3/07

Estimated Total Depth:

9000

Time To

Description

8:30 AM

RUN 5.5 CASING

5:00 PM

CIRC & WAIT ON HALLIBURTON

7:00 PM

CEMENT W/ HALLIBURTON PLUG DOWN 1900

8:00 PM

RIG DOWN CEMENTING TOOLS

11:00 PM

SET SLIPS NIPPLE DOWN BOP CUT OFF CASING

6:00 AM

CLEAN MUD PITS LD KELLY TONG SLIP ETC.

Remarks:

DSLTA 34

SAFETY MEETING: LDDP RUN CASING

294 JTS MIXED DP.

Mudmotors:

(2)Hunting 6.75 AKO/.13 slick S/n:2011(29.5hrs-In hole)

205(1)Hunting 8" .24 Rev/gal-19.5 hrs (2)Weatherford 6.75 AKO/stab:S/n 625-1385(Dirty)

625-

FUEL: 1781 GAL USED:548 GAL

TOTAL FUEL USED:16'326 GALDaily water hauled 140

Total water hauled 9912 bblsCALLED BLM O F UP

COMMING CASING JOB AT 10:17 AM 10/1/07

ALSO LEFT MASAGE OF DRY SPUD ON 12-36-36

AT 3:00 PM

release rig 0600 10/03/07 Doug Hackford

Well: #7-7-46 BTR

API#: 43-013-33565

Operations Date: 10/2/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Area: Black Tail Ridge

Report #:

Spud Date: 9/5/2007

Days From Spud: 27

Depth At 06:00:

Estimated Total Depth:

8731

9000

Morning Operations: RUNNING 5.5 CASING

Remarks:

DSLTA 33

SAFETY MEETING: LDDP RUN CASING

12:00 PM

Description

Time To 8:00 AM

TRIP IN HOLE

CIRC COND HOLE RU LAY DOWN TOOLS

10:00 PM

LDDP

6:00 AM

RUN 5.5 CASING

294 JTS MIXED DP.

Mudmotors:

(2)Hunting 6.75 AKO/.13 slick S/n:2011(29.5hrs-In hole)

2059

(1)Hunting 8" .24 Rev/gal-19.5 hrs

(2)Weatherford 6.75 AKO/stab:S/n 625-1385(Dirty)

625-

FUEL: 2329 GAL

USED:548 GAL

TOTAL FUEL USED:15,785 GAL

Daily water hauled 140 Total water hauled 9912 bbls

CALLED BLM O F UP COMMING CASING JOB

AT 10:17 AM 10/1/07

ALSO LEFT MASAGE OF DRY SPUD ON 12-36-36

AT 3:00 PM



Well: #7-7-46 BTR

API#: 43-013-33565

Operations Date: 10/1/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Area: Black Tail Ridge

Report #: 40

Spud Date: 9/5/2007

Days From Spud:

Depth At 06:00:

Morning Operations: TRIP IN HOLE BREAK CIRC @ 5000'

Estimated Total Depth:

9000

Time To

Description

2:30 AM

WIRE LINE LOGS

3:30 AM

PULL WEAR RING PU BIT BIT SUB

5:30 AM

TRP IN HOLE

6:00 AM

BREAK CIRC @ 5000'

Remarks: **DSLTA 32**

SAFETY MEETING: LOGGING

294 JTS MIXED DP.

Mudmotors:

(2) Hunting 6.75 AKO/.13 slick S/n:2011(29.5hrs-in hole)

2059

(1)Hunting 8" .24 Rev/gal-19.5 hrs

(2)Weatherford 6.75 AKO/stab:S/n 625-1385(Dirty)

625-

FUEL: 2877 GAL USED:274 GAL

TOTAL FUEL USED: 15,247 GAL

Daily water hauled 480 Total water hauled:9832 bbls

80 SPM 611PSI @ 7640'ft-9.9 MW

SPR#2:

Accum:2800 psi Man:1450 psi Ann:900 psi

Well: #7-7-46 BTR

API#: 43-013-33565

Operations Date: 9/30/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Area: Black Tail Ridge

Report #:

39

Spud Date: 9/5/2007

Time To

6:30 AM

7:30 AM

9:30 AM

2:00 PM

6:00 AM

Days From Spud: 25

Depth At 06:00:

Estimated Total Depth:

8731

9000

Morning Operations: LOGGING WELL

Remarks:

DSLTA 31

SAFETY MEETING: LOGGING

294 JTS MIXED DP.

CIRC. F/ LOGS LOST 60 BBL MUD POOH F/LOG

CIRC BOTTOMS UP

SHORT TRIP 5 STDS

LOG WELL LOG DEPTH 8725'

Description

Mudmotors:

(2)Hunting 6.75 AKO/.13 slick S/n:2011(29.5hrs-In hole)

2059

(1)Hunting 8" .24 Rev/gal-19.5 hrs

(2)Weatherford 6.75 AKO/stab:S/n 625-1385(Dirty)

625-

FUEL: 3151GAL USED:685 GAL

TOTAL FUEL USED:14'973 GAL

Daily water hauled 480 Total water hauled:9832 bbls

SPR#1: 70SPM 436 PSI @ 8657ft-10.2 MW 80SPM 575PSI @8657ft- 10.2 MW 80 SPM 611PSI @ 7640'ft-9.9 MW

SPR#2:

Accum:2800 psi Man:1450 psi Ann:900 psi



Well: #7-7-46 BTR

API#: 43-013-33565

Area: Black Tail Ridge

Operations Date: 9/29/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Report #:

Spud Date: 9/5/2007

24

38 Depth At 06:00: 8731

Days From Spud:

Estimated Total Depth:

9000

Time To

Morning Operations: CIRC BOTTOM UP @ TD 8731

Remarks:

DSLTA 30

SAFETY MEETING: Tripping pipe;

294 JTS MIXED DP.

Description

6:30 AM

DRLG. F/ 8550 - 8560

7:30 AM

CIRC BOTTOMS UP PUMP PILL

3:30 PM

POOH LD DIR. TOOLS RESET MOTOR

9:30 PM

TRIP IN HOLE

5:30 AM

DRLG. F/ 8560 TO 8731

6:00 AM

CIRC BOTTOM UP @ TD

Mudmotors:

(2) Hunting 6.75 AKO/, 13 slick S/n:2011(29.5hrs-In hole)

2059

(1)Hunting 8" .24 Rev/gal-19.5 hrs

(2)Weatherford 6.75 AKO/stab:S/n 625-1385(Dirty)

625-

FUEL: 3836 GAL USED:822 GAL

TOTAL FUEL USED:14'388 GAL

Daily water hauled 480 Total water hauled:9832 bbls

SPR#1: 70SPM 436 PSI @ 8657ft-10.2 MW 80SPM 575PSI @8657ft- 10.2 MW

80 SPM 611PSI @ 7640'ft-9.9 MW

Accum:2800 psi Man:1450 psi Ann:900 psi

Well: #7-7-46 BTR

API#: 43-013-33565

Operations Date: 9/28/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Area: Black Tail Ridge

Report #:

Spud Date: 9/5/2007

Days From Spud: 23 Depth At 06:00;

Estimated Total Depth:

8550 9000

Morning Operations: DRLG.

Time To

4:30 PM

5:00 PM

6:00 AM

Remarks:

DSLTA 29

SAFETY MEETING: Tripping pipe;

294 JTS MIXED DP.

SERVICE RIG

Description

DRLG. 8339 TO 8550

DRLG F/ 8149 TO 8339'

(2) Hunting 6.75 AKO/.13 slick S/n:2011(29.5hrs-In hole)

2059

Mudmotors:

(1) Hunting 8" .24 Rev/gal-19.5 hrs

(2)Weatherford 6.75 AKO/stab:S/n 625-1385(Dirty)

625-

FUEL: 4658 GAL **USED: 1233 GAL**

TOTAL FUEL USED:13,566 GAL

Daily water hauled

Total water hauled:9352 bbls

SPR#1: 60SPM 310 PSI @ 8250ft-10 MW

70SPM 515PSI @8250ft- 10 MW 80 SPM 611PSI @ 7640'ft-9.9 MW

SPR#2:

Accum:2800 psi Man:1450 psi Ann:900 psi

REGULATORY DRILLING SUMMARY

Days From Spud:



Well: #7-7-46 BTR

API#: 43-013-33565

Operations Date: 9/27/2007

Surface Location: NWSE-7-4S-6 W 30th PM

Area: Black Tail Ridge

Report #: 36

Spud Date: 9/5/2007

Depth At 06:00:

Morning Operations: Drilling ahead

Estimated Total Depth:

8149 9000

Time To

6:00 AM

Description

Remarks: **DSLTA 28**

5:30 PM

Drill 7.875" hole f/ 7770'ft to 7927'ft

Drill 7.875" hole f/ 7927'ft to 8149'ft

SAFETY MEETING: Catheads:

294 JTS MIXED DP

6:00 PM Rig service

Mudmotors:

(2) Hunting 6.75 AKO/.13 slick S/n:2011(53.5 hrs-In hole)

(1)Hunting 8" .24 Rev/gal- 19.5hrs

(2)Weatherford 6.75 AKO/stab:S/n 625-1385(Dirty)

FUEL: 5891 GAL USED: 959 GAL

TOTAL FUEL USED:13,322 GAL

Daily water hauled:130 bbls Total water hauled:9352 bbls

SPR#1: 60SPM 380 PSI @ 8087'ft-10 MW

70SPM 498 PSI @8087'ft- 10 MW 80 SPM 610PSI @ 8087'ft-10 MW

SPR#2:

Accum:2700 psi Man:1500 psi Ann:900 psi

Well: #7-7-46 BTR

API#: 43-013-33565 Area: Black Tail Ridge Operations Date: 9/26/2007

Report #:

Surface Location: NWSE-7-4S-6 W 30th PM Spud Date: 9/5/2007

Days From Spud: 21

Depth At 06:00:

Estimated Total Depth:

7770

9000

35

Morning Operations: Drilling ahead

Remarks:

DSLTA 27

SAFETY MEETING: Tripping pipe;

294 JTS MIXED DP.

2:00 PM Drill 7.875" hole f/ 7073'ft to 7326'ft

2:30 PM

Rig service

Description

6:00 AM

Time To

Drill 7.875" hole f/ 7326'ft to 7770'ft

Mudmotors:

(2)Hunting 6.75 AKO/.13 slick S/n:2011(29.5hrs-In hole)

2059

(1)Hunting 8" .24 Rev/gal-19.5 hrs

(2)Weatherford 6.75 AKO/stab:S/n 625-1385(Dirty)

625-

FUEL: 2466 GAL **USED: 1096 GAL**

TOTAL FUEL USED:12,363 GAL

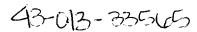
Daily water hauled:130 bbls Total water hauled:9352 bbls

SPR#1: 60SPM 290 PSI @ 7640'ft-9.9 MW

70SPM 498 PSI @7640'ft- 9.9MW 80 SPM 611PSI @ 7640'ft-9.9 MW

SPR#2:

Accum:2700 psi Man:1500 psi Ann:900 psi





pason systems usa corp.

16100 Table Mountain Parkway • Ste. 100 • Golden • C0 • 80403
Telephone (720) 880-2000 • Fax (720) 880-0016

October 8, 2007

Utah Division of Oil, Gas & Mining P.O. Box 145801 Salt Lake City, UT 84114-5801

RE: BILL BARRETT CORPORATION BLACK TAIL RIDGE 7-7-46 BTR SEC. 7, T4S, R6W

DUCHESNE COUNTY, UT

To Whom It May Concern:

Enclosed is the final computer colored log for the above referenced well.

We appreciate the opportunity to be of service to you and look forward to working with you in the near future.

If you have any questions regarding the enclosed data, please contact us.

Sincerely,

Bill Nagel Geology Manager Pason Systems USA

Bill Narl

BN/gdr

RECEIVED OCT 1 1 2007

DIV. OF OIL, GAS & MINING

Encl: 1 Computer Colored Log.

Cc: Tom Sperr, Bill Barrett Corp., Denver, CO.

Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0133
T 1.1 21 201

5. Lease Serial No. BIA-EDA-20G0005608

SUNDRY NOTICES AND REPORTS ON WELLS 6. If Indian, Allottee or Tribe Name Do not use this form for proposals to drill or to re-enter an Ute Indian Tribe abandoned well. Use Form 3160-3 (APD) for such proposals. 7. If Unit of CA/Agreement, Name and/or No. SUBMIT IN TRIPLICATE - Other instructions on page 2. 1. Type of Well 8. Well Name and No. # 7-7-46 BTR Oil Well Gas Well Other 2. Name of Operator Bill Barrett Corporation 9. API Well No. 3b. Phone No. (include area code) 10. Field and Pool or Exploratory Area 1099 18th Street, Suite 2300, Denver, CO 80202 Altamont (303) 312-8546 4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) 2323' FSL x 2465' FEL NW/4, SE/4, Section 7, T4S, R6W 11. Country or Parish, State Duchesne County, Utah 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Acidize Deepen Production (Start/Resume) Water Shut-Off Notice of Intent Alter Casing Fracture Treat Well Integrity Reclamation Other Weekly Completion Casing Repair New Construction Recomplete Subsequent Report Report Change Plans Plug and Abandon Temporarily Abandon Final Abandonment Notice Convert to Injection Plug Back Water Disposal 13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.) Weekly completion report from 10/1/07 - 11/10/2007. This is the final completion activity report. RECEIVED DEC 0 3 2007 DIV. OF OIL, GAS & MINING 14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Reed Haddock Title Permit Analyst 11/30/2007 THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Title

Office

Date

entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would

Approved by

Well Name: #7-7-46 BTR

Phase/Area

Black Tail Ridge

Bottom Hole Display	API #/License
SWNE-7-4S-6W-W30M	43-013-33565

Ops Date: 11/10/2007

Report #: 20

AFE #: 14412D

Summary: Rig down Nabors WSU and equipment.

Move to Peters Point 5-2Deep well.

End Time

Description

7:00 AM

Safety Meeting Rigging down WSU & Equipment. Roading rig

10:00 AM

Rig Down WSU & Equip.

12:00 PM

Road Equipment

12:00 PM

Well Name: #7-7-46 BTR

Phase/Area

Black Tail Ridge

Bottom Hole Display	API #/License
SWNE-7-4S-6W-W30M	43-013-33565

Ops Date: 11/9/2007

Report #:

19

AFE #: 14412D

Summary: Flow back, set plug in tbg. land tbg.

ND/NU. Pull plug out of tbg. turn well

over to Production.

End Time

Description

7:00 AM Safety Meeting. Setting tbg plug with slick line. Nipple Down & NU.

SL. pull plug.

9:00 AM RU Delsco slick line. RtH set plug in X nipple. POOH

12:00 PM trip in hole with tbg out of derrick. 1:30 PM Flow tbg recovered 66 bbls oil

2:00 PM POOH lay down tbg. Land tbg on hanger.

3:00 PM Clean oil off rig floor and BOPs

5:00 PM Rig Delsco RIH retrive plug from X nipple POOH RDMO S.L.

5:00 PM Turn well over to Production to flow.

Well Name: #7-7-46 BTR

Phase/Area

Black Tail Ridge

Bottom Hole Display	API #/License
SWNE-7-4S-6W-W30M	43-013-33565

Ops Date: 11/8/2007

Report #:

18

AFE #: 14412D

Summary: Flow test Rec. 160 bbl oil in 12 hours total oil recovered 3,754 bbl.. Rec. 64

bbl water. total water rec. 5,587. 8,096

7:00 PM

End Time

Flowing casing and tbg flow pressure 50 psi on 64 ck. recovered 160 bbl oil avg. of 13.3 B PH.and 64 bbl of water avg. of 5.3 BPH. Total Oil recovered 3,754 bbl. total water rec. 5,587 bbl. 8,096 bbl left to recover. Gas rate: .750 MCFD. sold 610 bbl of oil.

Description

bbl left. gas .750 MCFD.

Well Name: #7-7-46 BTR

Phase/Area

Black Tail Ridge

Bottom Hole Display	API #/License
SWNE-7-4S-6W-W30M	43-013-33565

Ops Date: 11/7/2007

Report #: 17

AFE #: 14412D

Summary: Flow test total oil recovered 3,594 bbls.

total water recovered 5523 bbl. 8160

bbl left.

End Time 6:00 AM

Description

Flow test.. FCP: 260 psi on 48 ck. recovered 212 bbls in the last 12 hours avg. of `17.6 BPH total bbl recovered 3,422. Flow temp. 75 deg. Recovered 100 bbl in 12 hours avg. of 8.3 BPH. Total bbls

recovered 5,431. Gas rate: .309 MCFD.

6:00 PM

Flow test FCP: 205 psi on 48 ck. recovered 172 bbl in 12 hours avg. of 14.3 BPH. total oil recovered 3,594 bbls. flow temp 84 deg. recovered 92 bbl water in 12 hours avg. of 7.6 BPH. total water recovered 5,523 bbls. gas rate: 186 MCFD. sold 310 b bls

oil.

11:59 PM

Phase/Area Black Tail Ridge

flow test

Bottom Hole Display	API #/License
SWNE-7-4S-6W-W30M	43-013-33565

Ops Date: 11/6/2007

Well Name: #7-7-46 BTR

Report #: 16

AFE #: 14412D

Summary: Flow test. 12 hours. Sold 310 bbl.oil.

recovered 84 bbl. oil in 12 hrs. made 59

bbl water. 12 hrs. gas. 106 mcfd.

End Time

7:00 PM

7:00 AM

FCP: 90 psi on 48 ck. recovered 84 bbl of oil in 12 hours, avg. of 7 BPH. Total oil recovered 3,210 bbl. Flowing temp: 63 deg.

Description

recovered 59 bbl water in 12 hours avg. of 4.9 BPH. BBLs left to recover 5,331 bbl. Gas rate: 106 MCFD. sold 310 bbls of oil.

Well Name: #7-7-46 BTR

Phase/Area

Black Tail Ridge

Bottom Hole Display	API #/License
SWNE-7-4S-6W-W30M	43-013-33565

Ops Date: 11/5/2007

15 Report #:

AFE #: 14412D

Summary: Flow test. FCP: 150 on 64 ck. 443 bbl in

24 hours, 328 bbl water, sold 900 bbl

oil. gas rate .432 MCFD

End Time

Description

7:00 PM

24 hour flow test. FCP: 150 psi on 64ck. recovered 443 bbls. Avg. of 18.4 BPH. total oil recovered: 2.832 BBLs. Water in 24 hours 328 bbl avg. of 13.66 BPH. total water recovered :5,160 bbls. 8,523 bbl left to recover. Gas rate of .432 MCF/D. Sold 900

BBIs oil.

11:59 PM

flow test

Wellcore

Well Name: #7-7-46 BTR

Phase/Area

Black Tail Ridge

Bottom Hole Display	API #/License
SWNE-7-4S-6W-W30M	43-013-33565

Ops Date: 11/4/2007

Report #: 14

AFE #: 14412D

Summary: Flow test

End Time

Description

6:30 AM

6:30 AM

12 hours flow back FCP: 165 psi on 64 ck. recovered 264 bbl oil.

recovered 200 bbl water. Total water recovered inn 12 hours 200

6:30 PM

Avg. oil 19.7 BPH. Avg. water 14.9 BPH. Gas .860 MCF. Sold

630 bbl oil.

Flow back.

6:30 PM Flow well

Well Name: #7-7-46 BTR

Phase/Area

Black Tail Ridge

Bottom Hole Display	API #/License
SWNE-7-4S-6W-W30M	43-013-33565

Ops Date: 11/3/2007

13 Report #:

AFE #: 14412D

Summary : Flow test. RU PLS could not get through tbg. try to pumpoff bit. RU PLS cut off tbg. flow tbg. flow of 25 BPH. flow test

End Time 7:00 AM

Description

7:00 AM

flow well

Safety meeting, flow well, & logging

9:00 AM

Flow well

10:00 AM

RU PSL logging RIH could not get through tbg at bit. POOH Pump 25 bbl try to pumpoff bit sub. could not pumpoff bit sub.

12:00 PM 1:00 PM

RU PLS RIH cut off joint . left 8 ft. 2-7/8" tbg, XN nipple, 8 ft. tbg

sub, Pumpoff bit sub with 4-3/4" bit.

2:30 PM

PLS. Production log well.

6:00 PM

Flow test flowing pressure 185 psi on 64 ck. recovered 1697 bbl of oil. 4567 bbl of water. Sold 630 bbl.

Wellcore

Well Name: #7-7-46 BTR

Phase/Area

Black Tail Ridge

Bottom Hole Display	API #/License
SWNE-7-4S-6W-W30M	43-013-33565

Ops Date: 11/2/2007

Report #: 12

AFE #: 14412D

Summary: flow casing. Safety meet. pumpoff bit.

flow test.

End Time

6:00 AM

Description

Continue flow testing well, at 06:00 hrs well was flowing 220 psi on a 64 ck, averaged 44.9 BOPH in last 12 hours, 18.3 BWPH. Total

oil recovered 1,890 bbls. 9,823 BLFTR. Preparing well for

production log this am.

7:00 AM

Flow casing

7:00 AM 10:00 AM Safety meeting, well testing.

Flow test. FCP: 390 psi on 64 ck. making 3 BPH oil. water 80

10:30 AM

Pumpoff Bit sub and bit

3:00 PM

Flow back. Avg. water 40 BPH. Avg. Oil 56 BPH. Total Water

Recovered 339 bbl. Total Oil recovered 449 bbl.

3:00 PM

Shut in to heat oil. Open @ 4:30PM on 64 Ck. FP: 450 psi.

7:00 PM Total Water Recovered 4,224 bbl BBLs left to recover 9,783 bbl.

Total Oil recovered 1,396 bbls.

Well Name: #7-7-46 BTR

Phase/Area

Black Tail Ridge

Bottom Hole Display	API #/License
SWNE-7-4S-6W-W30M	43-013-33565

Ops Date: 10/31/2007

Report #:

AFE #: 14412D

Summary: SI. PU Bit tbg. drill CBP @ 5300 ft. SI.

End Time

Description

7:01 AM

SI, on CBP

8:01 AM

Rig Up Nabors WSU.

9:31 AM

ND Wellhead Inc.Frac tree, NU Weatherford BOPs. Rig work

3:01 PM

PU 4-1/2" rock Bit, Weatherford pumpoff bit sub, pup sub, XN nipple. one jt, X nipple. tallyin hole with 2-7/8" L-80 Tbg. RiH tag kill plug @ 5300 ft. 168 jts.

4:31 PM

PU Power swivel, R&W foam unit

4:00 PM

Start foaming wellbore drill CBP @ 5300 ft. blow well around.

6:00 PM

SIFN

Well Name: #7-7-46 BTR

Phase/Area

Black Tail Ridge

Bottom Hole Display	API #/License
SWNE-7-4S-6W-W30M	43-013-33565

Ops Date: 10/30/2007

Report #:

AFE #: 14412D

Summary : SI. Move out 20 frac tanks. MIRU Nabors WSU & Equipment.

End Time

Description

7:00 AM

SI on CBP

4:00 PM

Truck 20 frac tanks off loc

5:00 PM

MI Rig and equipment on Loc.

5:00 PM

Shut in

Wellcore

Well Name: #7-7-46 BTR

Phase/Area

Black Tail Ridge

Bottom Hole Display	API #/License
SWNE-7-4S-6W-W30M	43-013-33565

Ops Date: 10/29/2007

Report #:

AFE #: 14412D

Summary: SI. EL & Frac stage 5. EL stage 6. Frac

#6. EL stage 7. frac #7. EL CBP @ 5300

End Time

7:00 AM 9:00 AM

BWWC EL stage 5 Wasatch . PU HES CFP with 10 ft. perf guns. RIH correlate to short it. Run to setting depth set CFP @ 6320 ft. PU perforate @ 6103-6104, 6055-6056, 6022-6023, 6020-6021, 5998-5999, 5948-5949, 5937-5938, 5927-5928, 5903-5904 & 5886-5887, 3 JSPF, 120 phasing, 23 gram charges, .430 holes.

Description

37" pen. POOH turn well over to frac.

10:00 AM

HES Frac stage 5 Wasatch 20# Delta 200. Load & Break @ 2.137 PSI @ 9.1 BPM. Avg. Slurry Rate: 68.42 BPM. Avg. Pressure: 4,027 PSI. Max. Slurry Rate: 75.75 PSI. Max. Pressure: 5,258 PSI. Total 100 mesh sand in formation: 5,061 lbs. Total Sand in Formation: 140,896 lbs. (20/40 White Sand) Total Fluid Pumped: 81,800 Gal. ISIP: 1,957 PSI. Frac Gradient: 0.76 psi/ft.5 min. SI. 1816 psi. 10 min. Sl. 1758 psi. 15 min. Sl. 1711 psi. Dropped one perf balls every 10 seconds 265 gals into acid stage, total of

30 balls shut down with 562 gals of acid left in wellbore.

11:00 AM

BWWC EL stage 6 Wasatch. PU HES CFP with 8 ft. perf guns. RIH correlate to short jt, run to setting depth set CFP @5825 ft. PU perforate @ 5790-5791, 5762-5763, 5717,5718, 5678-5679, 5665-5666, 5653-5654, 5615-5616 & 5582-5583, 3 JSPF, 120 phasing, 23 gram charge, .430 holes. 37" Pen. POOH turn well

over to frac.

1:00 PM

HES Frac stage 6 Wasatch 20# Delta 140. Load & Break @ 2.088 PSI. @ 10.3 BPM. Avg. Slurry Rate: 53.06 BPM. Avg. Pressure:3,076 PSI. Max. Slurry Rate: 61.5 BPM. Max. Pressure: 3,707 PSI. Total fluid Pumped: 93,175 gal. Total 100 mesh in Formation: 5,722 lbs. Total Sand in Formation: 161,638 lbs, (20/40 White Sand) ISIP:1,889 PSI. Frac Gradient: 0.77 psi/ft. 5Min. SI: 1,746 PSI. 10 Min. SI: 1,660 PSI. 15 min. SI: 1,618 PSI.

12:00 AM

2:20 PM

BWWC EL stage 7 Wasatch PU HES CFP with 7 ft. perf guns. RIH correlate to short jt. run to setting dewpth set CFP @ 5560 ft. PU perforate at 5530-5531, 5481-5482, 5468-5469, 5428-5429, 5407-5408, 5382-5383 & 5375-5376, 3 JSPF, 120 phasing, 23 gram charges .430 holes. 37" pen. POOH turn well over to frac.

Wellcore

Well Name: #7-7-46 BTR

Phase/Area

Black Tail Ridge

Bottom Hole Display	API #/License	
SWNE-7-4S-6W-W30M	43-013-33565	

Ops Date: 10/29/2007

Report #:

AFE #: 14412D

Summary : SI. EL & Frac stage 5. EL stage 6. Frac #6. EL stage 7. frac #7. EL CBP @ 5300

End Time 3:20 PM

Description

HES Frac stage 7 Wasatch 20# Delta 140. Load & Break @ Pressure: 2,625 PSI. Max. Slurry Rate: 40.55 BPM. Avg. Pressure: 2,625 PSI. Max. Slurry Rate: 50.96 BPM. Max. Pressure: 3,428 PSI. Total Fluid pumped: 64,850 gal. Total 100 Mesh Sand in Formation: 3,685 lbs. Total Sand in Formation: 106,736 lbs. (20/40 White Sand) ISIP:1,733 PSI. Frac Gradient: 0.76 psi/ft. 5 Min. SI: 1535 psi. 10 Min. SI: 1488 psi. 15 Min. SI:

1454 PSI.

5:20 PM

BWWC EL Composite bridge plug. PU tools RIH correlate to short jt. set CBP @ 5300 ft. POOH RDMO EL.

5:20 PM SI Well Name: #7-7-46 BTR

Phase/Area

Black Tail Ridge

Bottom Hole Display	API #/License
SWNE-7-4S-6W-W30M	43-013-33565

Ops Date: 10/28/2007

Report #:

7

AFE #: 14412D

Summary: SI. Frac stage 1 N.H. EL stage 2. Frac

#2. EL stage 3. Frac #3. EL stage 4.

Frac #4. Sl.

End Time 7:30 AM

Description

7:30 AM

Shut in

Pressure test, Safety meeting, fracing 8:25 AM

HES Frac stage 1 North Horn 20# Dalta 200, Load & Break @ 3,484 PSI @ 10.1 BPM. Avg. Slurry Rate: 64.3 BPM. Avg. Pressure: 3,715 PSI. Max. Slurry Rate: 68.13 BPM. Max. Pressure: 4,898 PSI. Total Fluid Pumped: 72,588 Gal. Total 100 mesh 3,500 lbs. Total Sand in Formation:120,700 lb. (20/40 White Sand) ISIP:1,584 PSI. Frac Gradient: 0.64 psi/ft. 5 Min. Shut In:

1436 psi. 10 Min. Sl. 1356 PSI. 15 Min. Sl. 1309.

10:10 AM

BWWC EL stage 2 Wasatch, PU HES CFP with 10 ft. perf guns. RIH correlate to short it. Run to setting depth set CFP @ 7710 ft. PU perforate @ 7636-7640, 7583-7585 & 7576-7560, 3 JSPF, 120 phasing, 23 gram charges, .430 holes. 37 " pen. POOH turn well

11:25 AM

HES Frac stage 2 Wasatch 20# Dalta 200. Load & Break @ 3,467 psi @ 10 BPM. Avg. Slurry Rate: 43.5 BPM. Avg. Pressure: 2,798 PSI. Max. Slurry Rate: 51.93 BPM. Max. Pressure: 4,630 psi. Total Fluid Pumped: 47,899 gal. Total 100 mesh 2,382 lbs. Total Sand in Formation: 69,508 lbs. (20/40 White Sand) ISIP:1,625 PSI. Frac Gradient: 0.65 psi/ft. 5 min. Sl. 1536 psi.

10 min. Sl. 1483 psi. 15 min. Sl. N/A psi.

12:00 AM

11:25 AM

BWWC EL stage 3 Wasatch. PU HES CFP with 6 ft. perf guns. RIH correlate to short jt. run to setting depth set CFP @ 6900 ft. PU perforate @ 7337-7338, 7271-7272, 7139-7140, 7045-7046 & 6956-6957, 3 JSPF, 120 phasing, 23 gram charges, .430 holes.

37" pen. POOH turn well to frac.

1:55 PM

HES Frac stage 3 Wasatch. Load & Break @ 4,049 PSI @ 5.12 BPM. Avg. Slurry Rate: 52.17 BPM. Avg. Pressure: 3,707 PSI. Max. Slurry Rate: 52.5 BPM. Max. Pressure: 5,631 PSI. Total 100 Mesh in Formation: 3,612 lbs. Total Sand in Formation: 110,588 lbs. (20/40 White Sand) ISIP:1,596 PSI. Frac Gradient: 0.66 psi/ft.

No 5,10 or 15 SI.

1:55 PM

BWWC EL stage 4 PU HES CFP with 10 ft. perf guns. RIH correlate to short it, run to setting depth set CFP @ 6900 ft. PU perforate @ 6666-6667, 6662-6663, 6598-6599, 6521-6522, , 6520-6521, 6503-6504, 6472-6473, 6453-6454, 6433-6434 & 6407-6408, 3 JSPF, 120 phasing, 23 gram charges, .430 holes,

37" pen. POOH turn well over to frac.

Wellcore

Well Name: #7-7-46 BTR

Phase/Area

Black Tail Ridge

Bottom Hole Display	API #/License
SWNE-7-4S-6W-W30M	43-013-33565

Ops Date: 10/28/2007

Report #: 7

AFE #: 14412D

Summary : SI. Frac stage 1 N.H. EL stage 2. Frac

#2. EL stage 3. Frac #3. EL stage 4.

Frac #4. Sl.

End Time 1:55 PM

Description

HES frac stage 4 Wasatch 20# Delta 200. Load & Break @ 3,553 @ 8.1 BPM. Avg. Slurry Rate: 54.43 BPM. Avg. Pressure: 3,369 PSI. Max. Slurry Rate: 76.49 BPM. Max. Pressure: 5,844 PSI. Total 100 Mesh in Formation: 7,923 ISIS. Total Sand in Formation: 194,088 lbs. (20/40 White Sand) ISIP:1,873 PSI. Frac Gradient: 0.72 psi/ft. 5 mln SI: 1771 PSI. 10 min. SI. 1736 PSI. 15 min SI:

1698 PSI.

1:55 PM

Shut in for night

Well Name: #7-7-46 BTR

Phase/Area

Black Tail Ridge

Bottom Hole Display	API #/License
SWNE-7-4S-6W-W30M	43-013-33565

Ops Date: 10/27/2007

Report #:

6

AFE #: 14412D

Summary: MIRU Black warrior EL. stage 1. MIRU

HES frac equipment. Heat frac water.

End Time

Description

7:00 AM

shut in. Heat frac water to 85 deg.

6:00 PM

MIRU Black Warrior Wire Line. PU 3-1/8" Expendable guns. 7 ft. RIH correlate to short jt. run to perf depth check depth to casing collars. Perforate North Horn @ 8053-8054, 8031-8032,

7894-7895, 7873-7874, 7852-7853, 7847-7848 & 7807-7808, 3 JSPF, 120 phasing, 23 gram chjarges, ,430 holes, 37" pen. POOH

6:00 PM

MIRU HES Frac equipment.

Well Name: #7-7-46 BTR

Phase/Area

Black Tail Ridge

Bottom Hole Display	API #/License	
SWNE-7-4S-6W-W30M	43-013-33565	

Ops Date: 10/26/2007

Report #:

5

AFE #: 14412D

Summary: MI Set 11 Frac tanks load with 2% KCL

End Time

Description

5:00 PM

MI 11 frac tanks and load with 2% KCL water

Well Name: #7-7-46 BTR

Phase/Area

Black Tail Ridge

Bottom Hole Display	API #/License	
SWNE-7-4S-6W-W30M	43-013-33565	

Ops Date: 10/25/2007

Report #:

AFE #: 14412D

Summary: MI Set frac Tanks and load. MIRU IPS

flow equipment.

End Time

Description

5:00 PM

MI set 12 frac tanks. start loading with KCL water.

5:00 PM

MIRU IPS flow equipment & Pressure test.

Wellcore

Well Name: #7-7-46 BTR

Phase/Area

Black Tail Ridge

Bottom Hole Display	API #/License
SWNE-7-4S-6W-W30M	43-013-33565

Ops Date: 10/23/2007

Report #:

3

AFE #: 14412D

Summary: MIRU Black Warrior ran Cement Bond

Log. holding on casing. 1000 psi Correlate to High Definition Log.

End Time

Description

Pressure test casing to 5000 psi.

5:00 PM

MIRU. Black Warrior EL Ran Junk Basket, Cement Bond log.

holding 1000 psi. Cement top @ 1550 ft.

Well Name: #7-7-46 BTR

Phase/Area

Black Tail Ridge

Bottom Hole Display	API #/License	
SWNE-7-4S-6W-W30M	43-013-33565	

Ops Date: 10/22/2007

Report #:

2

AFE #: 14412D

Summary: Set And test 10M frac tree, MIRU Black

Warrior run Cement Bond Log.

End Time

Description

4:00 PM

Well head Inc set tubbing head and X-Mas tree / test

12:00 AM

Well Name: #7-7-46 BTR

Phase/Area

Black Tail Ridge

Bottom Hole Display	API #/License	
SWNE-7-4S-6W-W30M	43-013-33565	

Ops Date: 10/21/2007

Report #:

AFE #: 14412D

Summary:

End Time

Description

Enter the description here

Well Name: #7-7-46 BTR

Phase/Area

Black Tail Ridge

Bottom Hole Display	API #/License	
SWNE-7-4S-6W-W30M	43-013-33565	

Ops Date: 10/1/2007

Report #: 11

AFE #: 14412D

Summary : SI. Drill CFPs.

End Time	Description
7:00 AM	SICP: 1200
7:30 AM	Safety meeting. drilling plugs. Oil
11:00 AM	TIH to CFP #6 @ 5560. start circ. problems with string float holding. POOH to string float. Change out floats. RIH to 5560 ft. rig swivel.
12:00 PM	Start foaming drill CFP #6 @ 5560 ft. FCP: 600 psi on 2" adj. choke. recovered 250 bbl water
1:00 PM	TIH tag CFP #5 @ 5825 ft. Drill out FCP:600 psi on 2" ck. recovered 200 bbl water
2:00 PM	TIH tag CFP #4 @ 6320 ft. drill out FCP: 600 psi on 2" ck. recovered 175 bbl water trace of sand.2 bbl oil
3:00 PM	TIH tag CFP #3 @ 6900 ft. drill out FCP: 600 psi on 2" ck./ recovered 119 bbl water made 15 bbl oil.
4:00 PM	TIH tag CFP #2 @ 7420 ft. Drill out . FCP: 600 psi on 2" ck. recovered 75 bbl water, 15 bbl oil.
5:00 PM	TIH tag CFP #1 @ 7710 ft. drill out, FCP: 600 psi on 2" ck. recovered 80 bbl water made 15 bbl oil.
6:00 PM	TIH total tbg in well of 271 jt. tag PBTD @8575. POOH lay down 15 jts.
7:00 PM	POOH to 5300 ft. remove string float.168 jts. in wellbore.
7:00 PM	Turn well to IPS FCP: 450 . Shut in tbg.
7:00 PM	IPS flow casing



*(See instructions and spaces for additional data on page 2)

RECEIVED DEC 1 0 2007 DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB NO. 1004-0137 Expires: July 31, 2010

UNITED STATES

				DEPA BUREA	KIMEN AU OF I	AND MAN	INTERIO	K ; VT	u 0F 0	IL, G	AS &	MINI	NG		OMB NO. Expires: July	
	WE	ELL (COMP	LETIOI	N OR R	AND MAN	TION REP	ORT	ND LO	OG	٠.,		5. Lo BIA-	ease Seri EDA-20	al No. DG000560	8
la. Type of V	Vell	N IC	ni Well	I I Cra	is Well	i i Drv. i i	Other						. 0. 11		Allottee or Ti	ribe Name
b. Type of C	Completion:			ı LJW	ork Over	Deepen D	Plug Back	□ Diff	Resvr.,		,			Indian		Name and No.
2. Name of C	ton		Other:										N/A		ne and Well	
Bill Barrett	Corporation	on											# 7-	7-46 BT	R	
3. Address ·	1099 18th Str Denver, CO 8	eet, Su 0202	ite 2300					Phone N 03) 312	No. <i>(includ</i> -8546	de area	a code,)		FI Well 1 13-335		
4. Location of	of Well (Re	port lo	cation ci	learly and	in accorda	nce with Federa	ıl requiremen	ts)*							Pool or Exp	loratory
At surface	2323' FS NW/4, S				۸/								11. 5		R., M., on Bl	
	1444/4, 3	E/4, C				5' FNL x 2070'	CCI							Survey or	Area Sec. 7	, T4S, R6W
At top proc	d. interval re	eported	I balanı		_	1 2094	- 4						12.	13. State		
A d d a d a l a l a l	_, SW/4,	NE/4	1 2 141'	213<	043' FE L	1 5074	•	Der i	フトワ				Duc	hesne (County	UT
14. Date Spudded 15. Date T.D. Reached 16. Date Completed 11/01/2007 17. Elevations										ıs (DF, RKE	3, RT, GL)*					
09/05/2007 18. Total De		873		9/28/200		g Back T.D.:		D&A				idge Pl		5' GL MD		
	TVI	859	95'				IVD							TVD	Yes (Submit	analysis)
21. Type Ele Baker Hug			ho . s	-		•		. 5 4		. W	as DS7		Z N	· 🗆	Yes (Submit	report)
23. Casing a			17		set in well	17, 60	1.CD+1	JK'C		Di	irection	ial Surv	ey? 🔲 N	0 7	Yes (Submit	сору)
Hole Size	Size/Gra		Wt. (#/ft		p (MD)	Bottom (MD)	Stage Co		No. o	f Sks.			ry Vol. BBL)	Ceme	ent Top*	Amount Pulled
20"	16"Cond	uct.	1/4 " wa	all Surfa	ice	40'	Dej	<u> μη</u>	Grout C		item	(I	DDL)	0,		
12 1/4"	9 5/8"		36 lbs.	Surfa		912'			120 sxs	s - HL	_C	40 bbl	s.	0'		
									240 sxs	s -AG	300	49 bb	s.			
8 3/4"	5 1/2" P	110	17 lbs.			8720'			170 sxs			116 b		800'		
	-								1000 s	xs- 5(0/50	265 b	ois.			
24. Tubing	Record			L_		1			<u> </u>		!					·
Size	Depth S	Set (M)	D) Pa	cker Deptl	n (MD)	Size	Depth Se	t (MD)	Packer D	epth (MD)		Size	Dept	Set (MD)	Packer Depth (MD)
2 7/8" 25. Producir	6400'						26. Pe	rforation 1	Record							<u> </u>
	Formation			To	·	Bottom		forated In	iterval			Size		No. Holes Perf. Status		
A) North H				7807'		8054'	7,807' -				0.43		21		Open	
B) Wasato C) Uteland				5762' 5375'		7640' 5718'	7,556' - 6,956' -				0.43		18		Open Open	
D)	Dutto			00.0		0710	6,407' -				0.43		30		Open	
27. Acid, Fr			, Cement	Squeeze,	etc.											
7,807' - 8,0	Depth Inter	val		70% CC	12 foam f	rac; 894 bbls.	LGC6: 180		Amount a					and		.,
7,556' - 7,6						180 bbls. of sl						0 103.	20 40 30	<u> </u>		
6,956' - 7,3				1528 bb	ls. LGC6	; 165 bbls. of	slickwater,	110,588	lbs. 20	- 40 s	sand.					
6,407' - 6,6				2546 bb	ls. LGC6	; 151 bbls. of	slickwater,	194,088	lbs. 20	- 40 s	sand.					
28. Producti Date First		I A Hours	Tes	it	Oil	Gas	Water	Oil Gra	vitv	Gas	s	Pr	oduction N	/lethod		
Produced	ł .	Tested	i Pro		BBL		BBL	Corr. A			avity		lowing			
11/2/07	12/1/07	24	-	-	282	180	84	49		N/						
	Tbg. Press. Flwg.	Csg. Press.		Hr.	Oil BBL		Water BBL	Gas/Oil Ratio	ł	- 1	ell Stat	us rkover				
	SI		l_	_	İ					اد	- 440	IVOAGI		,		
20/64 28a. Produc	tion - Interv	1000	U		282	180	84	49	· · · · · · · · · · · · · · · · · · ·							
Date First		Hours			Oil		Water	Oil Gra		Ga		Pı	oduction N	Method .		
Produced		Tested	a Pro	duction	BBL	MCF	BBL	Corr. A	ΥI	Gra	avity					
Choke	Tbg. Press.	Cso	24	Hr.	Oil	Gas	Water	Gas/Oil	l	We	ell Stat	us				
Size	Flwg.	Press.			BBL		BBL	Ratio	-		J.					
	SI		_	→												

	uction - Inte			.,							
Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravit Corr, API		Production Method		
hoke ize	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Sta	atus		
	Test Date		Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravit Corr. API		Production Method		
hoke ze	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Sta	itus		
). Dispos	ition of Ga	Solid, us	sed för fuel, ve	nted, etc.)	· · · · · · · · · · · · · · · · · · ·					
). Sumn	ary of Poro	us Zones	(Include Aqui	fers):				31. For	mation (Log) Markers		
	ng depth int					ed intervals and allowing and shut-in					
Form	nation	Тор	Bottom		Ť	escriptions, Cont	anto eta		Name	Тор	
ron	nation	ТОР	Bottom		L	escriptions, Com	ens, etc.		Name	Meas. Depth	
								Castle F Uteland (No.		5156' 5467' 5734' 7750'	
								TD		8731'	
2. Addit	ional remar	ks (include	e plugging pro	cedure):							
					-	the appropriate b					
_		_	s (1 full set req g and cement v	•		Geologic Repo		DST Report Other:	Directional Survey		
34. I here	by certify th	at the fore	egoing and att	ached info			rect as determi	ned from all availa	able records (see attached instr	ructions)*	
	ignature	grigh) R KDD (eed Haddoo	ida	ock			rmit Analyst 05/2007			
								wingly and willfu	lly to make to any department	or agency of the United States a	ny
Continue			itements or rej	oresentati	ons as to an	y matter within its	s junsaiction.	· · · · · · · · · · · · · · · · · · ·		(Form 3160-4, p	

·		-			· :
26. PERFOI	RATION RECO	RD (cont.))	7 to	
TRYMOTOTOTALE	(Top/Bot-MD)	SIZE	NO. HOLES	PERFO	RATION STATUS
INIEKVAL	(TOP/DOL-MID)	91212	MO. MOLLO	LLIU O	WALLOW BLULO
5,886'	6,104°	0.430"	30	TERGO	Open Open
	,	+		TERGO	

27. ACID, FRACTURE, TREA	TMENT, CEMENT SQUEEZE, ETC. (cont.)
DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5,886' - 6,104'	1803 bbls. LGC6; 145 bbls. of slickwater, 140,896 lbs. 20 - 40 sand.
5,582' - 5,791'	2086 bbls. LGC6; 132 bbls. of slickwater, 161,638 lbs. 20 - 40 sand.
5,375' - 5,531'	1418 bbls. LGC6; 126 bbls. of slickwater, 106,736 lbs. 20 - 40 sand.

Location Information

Business Unit

Well:

API #/License:

Operations

#7-7-46 BTR

43-013-33565

Project Uinta

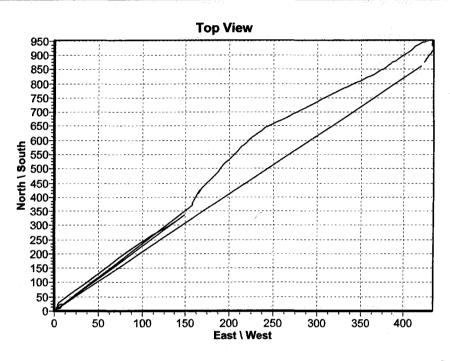
Surface Location: NWSE-7-4S-6W-W30M

Phase/Area

Bottom Hole Location:

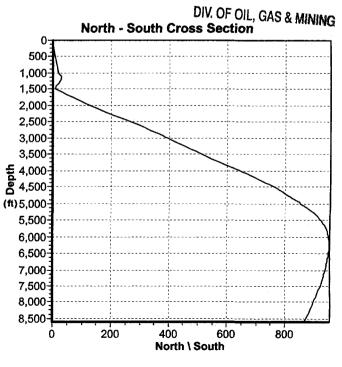
Black Tail Ridge

SWNE-7-4S-6W-W30M



RECEIVED DEC 1 0 2007

East - West Cross Section 500 1,000 1,500 2,000 2,500 3,000 3,500 4,000 4,500 (ft)5,000 5,500 6,000 6,500 7,000 7,500 8,000 8,500 400 100 200 300 East \ West



Directional Surveys

Wellcore

Location Information Business Unit

Operations

Uınta

Project

Phase/Area

Black Tail Ridge Well Name

#7-7-46 BTR

Surface Location NWSE-7-4S-6W-W30M

Main Hole ·

Bottom Hole Information					
ÛWL	: 1	1 2 3m	API#	,	
SWNE-7-4S-6W-W30M		43-01	3-33565		

Survey Section De	<u>etails</u>		
Section	KOP KOP Date	(ft) (ff)	TD.Date

Survey Information		
Survey Company	Direction of Vertical Section (°)	Magnetic Dec. Correction (°)
Sharewell / WEATHERFORD	23 84	12.04

RECEIVED DEC 1 0 2007

DIV. OF OIL, GAS & MINING

Details		Corr	ected								
	Denth MD	Inclination		* TVD.	Sub Sea	^ Northings	TN/S	- Eastings	!- E/M:	Vertical Section	-Dog Leg
LAGOP	(ft)	(°)	(°)	(ft)		(ft)		(tt)			
	·		(· · · · · · · · · · · · · · · · · · ·	0.00	19.50	0.00	N	0.00	E	0.00	0.00
				0.00	19.50	0.00	N	0.00	E	0.00	0.00
				0.00	19.50	0.00	N	0.00	E	0.00	0.00
				0.00	19.50	0.00	N	0.00	E	0.00	0.00
				0.00	19.50	0.00	N	0.00	E	0.00	0.00
				0.00	19.50	0.00	N	0.00	E	0.00	0.00
				0.00	19.50	0.00	N	0.00	E	0.00	0.00
				0.00	19.50	0.00	N	0.00	E	0.00	0.00
				0.00	19.50	0.00	N	0.00	E	0.00	0.00
				0.00	19.50	0.00	N	0.00	E	0.00	0.00
				0.00	19.50	0.00	N	0.00	E	0.00	0.00
				0.00	19.50	0.00	N	0.00	E	0.00	0.00
				0.00	19.50	0.00	N	0.00	E	0.00	0.00
	365.00	0.75	194.10	364.98	-345.48	2.32	S	0.58	w	-2.35	0.21
	805.00	2.00	194.10	804.83	-785.33	12.56	S	3.15	w	-12.76	0.28
	964.00	2.20	194.10	963.72	-944.22	18.21	S	4.57	W	-18.50	0.13
	1025.00	3.90	192.60	1024.63	-1005.13	21.37	S	5.31	w	-21.69	2.79
	1105.00	3.00	220.60	1104.48	-1084.98	25.61	s	7.27	w	-26.36	2.35
	1200.00	1.70	347.70	1199.40	-1179.90	26.12	s	9.18	w	-27.61	4.47
	1295.00	5.20	2.80	1294.18	-1274.68	20.45	s	9.27	w	-22.45	3.77
	1391.00	8.70	13.40	1389.43	-1369.93	9.04	S	7.38	w	-11.25	3.87
	1486.00	11.20	19.80	1482.98	-1463 48	6.63	N	2.59	W	5.02	2.87
	1581.00	14.30	20.20	1575.60	-1556.10	26.32	Ν	4.59	E	25.93	3.26
	1676.00	15.10	21.90	1667.49	-1647 99	48.82	N	13.25	E	50.01	0.96
	1772.00	15.20	25.80	1760.16	-1740.66	71.75	N	23.39	Ε	75.08	1.07
	1867.00	13.20	25.10	1852.24	-1832.74	92.78	N	33.42	E	98.37	2.11
	1962.00	14.40	22.55	1944.49	-1924.99	113.51	N	42.55	E	121.03	1.42
	2055.00	16.60	23.90	2034.09	-2014.59	136.34	N	52.36	E	145.87	2.40
	2149.00	15.80	20.90	2124.36	-2104.86	160.57	N .	62.37	E	172.08	1.23
	2244.00	16.00	25.00	2215.72	-2196.22	184.52	N	72.52	E	198.09	1.20
	2339.00	18.20	27.40	2306.51	-2287.01	209.56	N	84.88	E	225.98	2.43
-	2434.00	19.20	24.30	2396.49	-2376.99	236.97	N	98.13	E	256.41	1.48
	2530.00	19.20	28.60	2487.15	-2467.65	265.21	N	112.19	E	287.93	1.47
	2623.00	18.00	28.60	2575.29	-2555.79		N	126.38	E	317.49	1.29
	2719.00	15.10	26.60	2667.28	-2647.78	315.46	N	139.08	E	344 76	3.08
	2805.00	14.00	23.90	2750.52	-2731.02		N	148.31	E	366.35	1.50
	2954.00	11.55	3.43	2895.80	-2876 30	366.35	N		E	398 35	3.43
-	2985.00	12.25	4.42	2926.13	-2906 63	372.73	N	156.95	E	404.36	2.35
	3017.00	12.25	5.67	2957.40	-2937 90	379.49	N	157.54	E	410.79	0.83
	3048.00	12.88	7.92	2987.66	-2968.16		N	158.35	E	417.24	2.57
	3080.00	13.13	10.29	3018.84	-2999.34	393.30	N	159.49	E	424.20	1.84
	3111.00	13.81	11.67	3048.98	-3029.48		N	160.86	E	431.24	2.43
	3141.00	13.56	12.54	3078.13	-3058.63		N	162.35	<u>E</u>	438.19	1.08
	3171.00	14.56	13.29	3107.23	-3087.73		N	163.98	E	445.35	3.39
	3203.00	14.69	14.92	3138.20	-3118.70		N		E	453.31	1.35
L	3235.00	15.31	15.92	3169.10	-3149.60	430 25	N	168.15	E	461.50	2.10

Location Information

Business Unit

Operations

Project Uinta Phase/Area

Black Tail Ridge

Well Name #7-7-46 BTR Surface Location NWSE-7-4S-6W-W30M

Main Hole:

Extrap	Depth MD (ft)	Inclination (°)	Azimuth- (°)	TVD (ft)	Sub Sea (ft)	Northings (ft)	N/S	Eastings (ft)	E/W	Vertical Section (ft)	Dog L€
	3298.00	14.25	16.42	3230.02	-3210.52	445 68	N	172.63	E	477.43	1.69
	3329.00	13.44	17.04	3260.12	-3240.62	452 79	N	174.76	E	484.79	2.66
	3361.00	13.88	17.04	3291.21	-3271.71	460 01	N	176.98	E	492.29	1.38
	3424.00	13.75	18.29	3352.39	-3332.89	474 34	N	181.54	E	507.25	0.52
	3487.00	13.19	15.04	3413.65	-3394 15	488.39	N	185.76	E	521.80	1.49
	3550.00	12.69	13.04	3475.05	-3455.55	502.08	N	189.18	E	535.70	1.07
	3613.00	13.13	17.92	3536.46	-3516.96	515.63	N	192.94	E	549.62	1.87
	3644.00	13.75	20.67	3566.61	-3547.11	522.42	N	195.33	E	556.80	2.87
	3676.00	14.25	21.92	3597.66	-3578.16	529.64	N	198.14	E	564.53	1.83
	3737.00	15.44	19.17	3656.62	-3637.12	544.27	N	203.61	E	580.13	2.27
	3801.00	15.94	16.92	3718.24	-3698.74	560.73	N	208.97	E	597.34	1.23
	3862.00	16.38	17.17	3776.83	-3757.33	576.96	N	213.94	E	614.20	0.73
	3893.00	15.88	18.42	3806.61	-3787.11	585.16	N	216.57	E	622.77	1.96
	3924.00	16.06	19.04	3836.41	-3816.91	593 23	N	219.31	E	631.26	0.80
	3956.00	16.31	21.04	3867.14	-3847.64	601 61	N	222.37	E	640.16	1.91
	3986.00	16.38	21.17	3895.93	-3876.43	609.49	N	225.41	E	648.59	0.26
	4017.00	18.31	22.17	3925.51	-3906.01	618.07	N	228.83	E	657.83	6.30
	4048.00	16.56	23.04	3955.09	-3935.59	626.65	N	232.39		667.11	
									E		5.71
	4080.00	16.38	23.17	3985.77	-3966.27	634.99	N	235.95	E	676.18	0.57
	4111.00	16.63	27.70	4015.50	-3996.00	642.94	N	239.73	E	684.98	4.23
	4142.00	16.94	30.67	4045.17	-4025.67	650.75	N	244.10	E	693.89	2.94
	4205.00	16.50	33.54	4105.51	-4086.01	666.10	N	253.72	E	711.82	1.48
	4237.00	15.31	34.54	4136.28	-4116.78	673.37	N	258.63	E	720.45	3.82
	4268.00	14.94	34.17	4166.21	-4146.71	680.05	N	263.20	E	728.40	1.23
	4300.00	14.81	33.04	4197.14	-4177.64	686.89	N	267.74	E	736.50	0.99
	4332.00	15.44	31.54	4228.03	-4208.53	693.95	N	272.20	E	744.76	2.32
	4364.00	15.69	31.67	4258.86	-4239.36	701.26	N		E		
								276.70		753.27	0.79
	4395.00	15.38	31.79	4288.72	-4269.22	708.32	N	281.07	E	761.49	1.00
	4427.00	15.31	32.29	4319.58	-4300.08	715.50	N	285.56	E	769.87	0.47
	4458.00	15.06	31.79	4349.50	-4330.00	722.38	N	289.87	E	777.91	0.91
	4490.00	15.56	31.04	4380.36	-4360.86	729.60	N	294.27	E	786.28	1.68
	4522.00	16.00	30.29	4411.16	-4391.66	737 08	N	298.71	E	794.92	1.52
	4553.00	15.06	30.17	4441.02	-4421.52	744.25	N	302.89	E	803.17	3.03
	4585.00	14.50	30.67	4471.97	-4452.47	751 29	N	307.02	E	811 28	1.79
	4617.00	14.88	35.04	4502.92	-4483.42	758.10	N	311.42	E	819.29	
	4649.00	14.72	37.16	4533.86	-4514.36		N				3.66
	4680.00					764.71	1	316.24	E	827.28	1.76
		14.38	36.17	4563.86	-4544.36	770.95	N	320.89	E	834.87	1.36
	4712.00	13.69	36.29	4594.91	-4575.41	777.21	N	325.47	E	842.45	2.16
	4744.00	12.88	35.79	4626.05	-4606.55	783.16	N	329.80	E	849.64	2.56
	4775.00	12.19	35.67	4656.31	-4636.81	788.62	N	333.73	E	856.22	2.23
	4807.00	11.44	36.92	4687.63	-4668.13	793.90	N	337.61	E	862.62	2.48
	4870.00	12.31	33.54	4749.28	-4729.78	804.49	N	345.07	E	875.32	1.77
	4902.00	12.88	35.04	4780.51	-4761.01	810.26	N	349.00	E	882.18	2.05
	4933.00	12.56	36.17	4810.75	-4791.25	815.81	N	352.98	E	888.87	1.31
	4965.00	13.50	33.17	4841.93	-4822.43	821.74	N	357.07	E	895.95	
	4996.00						 				3.62
		13.56	31.79	4872.07	-4852.57	827.86	N	360.97	E	903.12	1.06
	5028.00	13.25	32.79	4903.19	-4883.69	834.13	N	364.93	E	910.46	1.21
	5060.00	12.88	33.54	4934.36	-4914.86	840.19	N	368.89	E	917.60	1.27
	5091.00	12.88	28.29	4964.58	-4945.08	846.11	N	372.43	E	924.45	3.77
	5123.00	12.38	25.79	4995.81	-4976.31	852.34	N	375.61	E	931.43	2.31
	5154.00	11.50	25.92	5026.14	-5006.64	858.11	N	378.41	E	937.84	2.84
	5186.00	11.00	25.29	5057.52	-5038.02	863.74	N	381.11	E	944.08	1.61
	5218.00	10.69	25.79	5088.95	-5069.45	869.17	N	383.71	E	950.10	1.01
-	5250.00	10.31	26.42	5120.42	-5100.92	874.41	N				
	5281.00	9.94	25.92	5120.42				386.27	E	955.93	1.24
					-5131.43	879.30	N	388.67	E	961.37	1.23
	5345.00	8.88	26.54	5214.07	-5194.57	888.69	N	393.30	E	971.83	1.66
	5408.00	8.06	25.54	5276.38	-5256.88	897.02	N	397 37	E	981.10	1.32
	5472.00	7.56	23.17	5339.79	-5320.29	904.94	Z	400.96	E	989.79	0.93
	5535.00	6.94	23.67	5402.28	-5382.78	912.24	N	404.12	E	997.74	0.99
	5599.00	6.25	24.17	5465.86	-5446.36	918.96	N	407.10	E	1005.09	1.08
	5662.00	5.81	25.04	5528.51	-5509.01		N	409.86	E	1011.71	0.71
	5725.00	4.88	25.79	5591.23	-5571.73		N	412.37	E	1017.58	1.48
	5788.00	4.19	26.29	5654.03	-5634.53						
							N	414.56	E	1022.55	1.10
	5851.00	3.88	27.17	5716.88	-5697.38		N	416.55	E	1026.98	0.50
	5914.00	3.31	33.00	5779.75	-5760.25		N	418.51	E	1030.90	1.07
	5977.00	2.75	40.29	5842.66	-5823.16	944.81	N	420.48	E	1034.15	1.08
	6040.00	2.56	42.04	5905.60	-5886.10	947.01	N	422.40	E	1036.94	0.33

Location Information

Business Unit

Operations

Project Uinta Phase/Area

Black Tail Ridge Well Name

#7-7-46 BTR

Surface Location

NWSE-7-4S-6W-W30M

Main Hole:

Extrap.	Depth MD (ft)	Inclination (°)			Sub Sea (ft)	Northings (ft)	N/S		E/W	Vertical Section (ft)	Dog Leg
-	, (11)	`()	(°),	(ft) ((11)	(11)	_	(ft)	<u> </u>	: (ty	
	6104 00	2.38	41.54	5969.54	-5950.04	949.06	N	424.24	Ε	1039.56	0.28
	6167.00	2.00	45.79	6032.49	-6012.99	950.81	N	425.89	E	1041.82	0.66
	6231.00	1.38	50.67	6096.46	-60 76 96	952.08	N	427.29	Ε	1043.55	0.99
	6294.00	0.94	62.92	6159.45	-613 9 95	952.79	N	428.34	E	1044.63	0.80
	6357.00	0.71	102.76	6222.44	-62 02.94	952.94	N	429.18	E	1045.10	0.96
	6420.00	0.57	121.24	6285.44	-6265.94	952.69	N	429.83	E	1045.14	0.39
	6482.00	0.50	138.92	6347.43	-6327.93	952.33	N	430.27	E	1044.98	0.29
	6546.00	0.75	143.79	6411.43	-6391.93	951.78	N	430.70	Ε	1044.66	0.40
	6610.00	0.88	153.29	6475.42	-6455.92	951.00	N	431.17	Е	1044.13	0.29
	6673.00	1.25	160.29	6538.41	-6518.91	949.93	N	431.62	E	1043.33	0.62
	6737.00	1.69	171.29	6602.39	-6582.89	948.34	N	431.99	E	1042.03	0.81
	6800.00	1.94	172.91	6665.36	-6645.86	946.36	N	432.27	E	1040.33	0.40
	6864.00	0.87	198.18	6729.34	-6709.84	944.82	N	432.25	E	1038.92	1.89
	6927.00	1.13	193.42	6792.33	-6772.83	943.76	N	431.96	E	1037.83	0.43
	6991.00	1.44	191.79	6856.31	-6836.81	942.36	N	431.65	E	1036.42	0.49
· · · · · · · · · · · · · · · · · · ·	7105.00	1.56	180.42	6970.27	-6950.77	939.41	N	431.34	E	1033.60	0.28
.,	7117.00	1.75	179.16	6982.27	-6962.77	939.06	N	431.34	E	1033.28	1.62
	7212.00	2.06	175.79	7077.21	-7057.71	935.91	N	431.49	E	1030.46	0.35
	7275.00	1.69	170.04	7140.18	-7120.68	933.86	N	431.73	E	1028.68	0.66
	7339.00	2.00	165.54	7204.15	-7184.65	931.85	N	432.17	Ε	1027.02	0.53
	7433.00	1.88	180.29	7298.09	-7278. 59	928.72	N	432.58	E	1024.32	0.54
	7528.00	2.31	179.72	7393.03	-7373. 53	925.25	N	432.58	E	1021.15	0.45
	7623.00	2.63	184.29	7487.94	-7468.44	921.16	N	432.42	E	1017.35	0.40
	7719.00	3.06	184.79	7583.82	-7564.32	916.41	N	432.05	E	1012.85	0.45
	7782.00	2.75	193.91	7646.74	-7627.24	913.27	N	431.54	Ε	1009.77	0.88
	7876.00	2.75	195.91	7740.63	-7721.13	908.91	N	430.38	E	1005.32	0.10
· · · · · · · · · · · · · · · · · · ·	7971.00	2.75	197.91	7835.52	-7816.02	904.55	N	429.06	E	1000.79	0.10
	8066.00	2.88	194.92	7930.41	-7910.91	900.08	N	427.74	E	996.17	0.21
	8162.00	2.88	195.29	8026.29	-8006.79	895.42	N	426.48	E	991.40	0.02
	8257.00	3.06	195.42	8121.16	-8101.66	890.68	N	425.18	E	986.53	0.19
	8351.00	3.31	190.04	8215.01	-8195.51	885.58	N	424.04	E	981.41	0.41
	8446.00	3.44	189.54	8309.85	-8290.35	880.07	N	423.09	E	975.99	0.14
	8509.00	3.44	193.04	8372.73	-8353.23	876.37	N	422.35	E	972.30	0.33
	8731.00	3.44	195.00	8594.33	-8574.83	863.45	N	419.12	E	959.18	0.05

Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPRO	VED
OMB No. 1004-	0137
Expires: July 31	201

5. Lease Serial No.
5. Lease Serial No. BIA-EDA-20G0005608

6. If Indian, Allottee or Tribe Name Ute Indian Tribe

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

	Use Form 3160-3 (A	roposals.	Ote malar mise		
SUBMI	T IN TRIPLICATE - Othe	r instructions on pag	e 2.	,	reement, Name and/or No.
1. Type of Well				N/A	
Oil Well Gas V	Vell Other			8. Well Name and N # 7-7-46 BTR	0.
2. Name of Operator Bill Barrett Corporation				9. API Well No. 43-013-33565	
3a. Address	······································	3b. Phone No. (inclu	ide area code)	10. Field and Pool of	r Exploratory Area
1099 18th Street, Suite 2300, Denver, CO 8020		(303) 312-8546		Altamont	
4. Location of Well (<i>Footage, Sec., T.,</i> 2323' FSL x 2465' FEL NW/4, SE/4, Section 7, T4S, R6W	R.,M., or Survey Description	n)		11. Country or Parisi Duchesne County	
12. CHEC	CK THE APPROPRIATE BO	OX(ES) TO INDICAT	E NATURE OF NOT	TICE, REPORT OR OT	HER DATA
TYPE OF SUBMISSION			TYPE OF AC	CTION	
Notice of Intent	Acidize Alter Casing	Deepen Fracture Tro		oduction (Start/Resume)	Water Shut-Off Well Integrity
✓ Subsequent Report	Casing Repair	New Constr		complete	Other Flaring Gas
Final Abandonment Notice	Change Plans Convert to Injection	Plug and Al Plug Back		mporarily Abandon ater Disposal	
testing has been completed. Final determined that the site is ready for Bill Barrett Corporation (BBC) reques which should be completed in the n	Abandonment Notices must r final inspection.) est permission to continue ext week.	be filed only after all r	requirements, includir	ng reclamation, have been	
 I hereby certify that the foregoing is t Name (Printed/Typed) 	rue and correct.	1			
Reed Haddock		Title	Permit Analyst		
Signature LOO d	faddock	Date	03/20/2008		
	THIS SPACE	FOR FEDERAL	. OR STATE O	FFICE USE	
Approved by					Det
Conditions of approval, if any, are attached that the applicant holds legal or equitable the applicant to conduct operations	title to those rights in the subje		Office		Date
Title 18 U.S.C. Section 1001 and Title 43 fictitious or fraudulent statements or repre			nowingly and willfully	to make to any departme	ent or agency of the United States any false,

(Instructions on page 2)

Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

5. Lease Serial No. BIA-EDA-2OG0005608

6. If Indian, Allottee or Tribe Name

SUNDRY NOTICES AND REPORTS ON WELLS this form for proposals to drill or to reaptor an

	Use Form 3160-3 (AP			Ote maian mbe				
SUBMIT	T IN TRIPLICATE - Other in	structions on page 2.		7. If Unit of CA/Agree	ement, Name and/or No.			
1. Type of Well			8. Well Name and No.					
✓ Oil Well ☐ Gas W	/ell Other		# 7-7-46 BTR					
2. Name of Operator Bill Barrett Corporation			9. API Well No. 43-013-33565					
3a. Address 1099 18th Street, Suite 2300, Denver, CO 8020	2	b. Phone No. (include a	rea code)	10. Field and Pool or E	Exploratory Area			
	[(303) 312-8546		Altamont	Ct			
Location of Well (Footage, Sec., T.,R.,M., or Survey Description) 11. Country or Parish, State Puchesne County, Utah								
12. CHEC	12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA							
TYPE OF SUBMISSION			TYPE OF ACT	rion				
Notice of Intent	Acidize	Deepen	Prod	luction (Start/Resume)	Water Shut-Off			
1 140tice of intent	Alter Casing	Fracture Treat	Recl	lamation	Well Integrity			
Subsequent Report	Casing Repair	New Construction	on Reco	omplete	Other Flaring Gas			
	Change Plans	Plug and Aband	on Tem	porarily Abandon				
Final Abandonment Notice	Convert to Injection	Plug Back	☐ Wate	er Disposal				
testing has been completed. Final determined that the site is ready for Bill Barrett Corporation (BBC) reque 2007. This oil well also produced as March 28, 2008. Attached find the v	r final inspection.) est permission to continue to ssociated gas during this pe	flare gas on the # 7-7 riod. BBC is in the pro	7-46 BTR location	n. This well well went	on production on November 1,			
14. I hereby certify that the foregoing is to Name (Printed/Typed)	rue and correct.			······································	The state of the s			
Tame (1 / mean 1 ypeny)		Title Pe	ermit Analyst					
Signature LMAA	addock	Date 03	3/24/2008					
	THIS SPACE F	OR FEDERAL O	R STATE OF	FICE USE				
Approved by								

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Title

(Instructions on page 2)

Date

Bill Barrett Corp. 7-7-46 BTR & 12-36-36 Wells

Flared Gas Associated with Oil Production

	MCF/D		MCF/D	MCF/D		MCF/D	MCF/D		MCF/D	MCF/D
Dec.	7-7-46 BTR <i>2007</i>		7-7-46 BTR <i>Jan. 2008</i>	12-36-36 BTR		7-7-46 BTR <i>Feb. 2008</i>	12-36-36 BTR		7-7-46 BTR <i>Mar-08</i>	12-36-36 BTR
		1/1/2008	184	NA	2/1/2008	207	0	3/1/2008	160	75
		1/2/2008	175	NA	2/2/2008	206	0	3/2/2008	106	52
		1/3/2008	170	NA	2/3/2008	198	0	3/3/2008	90	56
		1/4/2008	144	NA	2/4/2008	194	0	3/4/2008	62	63
		1/5/2008	168	650	2/5/2008	195	0	3/5/2008	60	73
		1/6/2008	114	260	2/6/2008	187	0	3/6/2008	40	70
		1/7/2008	114	190	2/7/2008	171	0	3/7/2008	40	81
		1/8/2008	157	130	2/8/2008	173	0	3/8/2008	181	99
		1/9/2008	160	70	2/9/2008	173	0	3/9/2008	123	113
1		1/10/2008	0	0	2/10/2008	157	0	3/10/2008	173	110
		1/11/2008	125	0	2/11/2008	146	0	3/11/2008	189	127
		1/12/2008	160	80	2/12/2008	132		3/12/2008	114	124
		1/13/2008	198	180	2/13/2008	95		3/13/2008	154	154
		1/14/2008	165	220	2/14/2008	123		3/14/2008	164	141
		1/15/2008	150	300	2/15/2008	142		3/15/2008	147	149
		1/16/2008	115	0	2/16/2008	118		3/16/2008	134	147
		1/17/2008	90	0	2/17/2008	68	*0	3/17/2008	129	134
		1/18/2008	41	0	2/18/2008	152	0	3/18/2008	130	139
		1/19/2008	138	0	2/19/2008	187	0	3/19/2008		
12/20/2007	188	1/20/2008	200	0	2/20/2008	121	0	3/20/2008		
12/21/2007	140	1/21/2008	122	0	2/21/2008	70	70	3/21/2008		
12/22/2007	91	1/22/2008	117	0	2/22/2008	195	70	3/22/2008		
12/23/2007	156	1/23/2008	224	0	2/23/2008	220	103	3/23/2008		
12/24/2007	88	1/24/2008	232	0	2/24/2008	297	78	3/24/2008		
12/25/2007	71	1/25/2008	225	0	2/25/2008	311	493	3/25/2008		
12/26/2007	0	1/26/2008	223	0	2/26/2008	161	643	3/26/2008		
12/27/2007	0	1/27/2008	223	0	2/27/2008	170	393	3/27/2008		
12/28/2007	0	1/28/2008	217	0	2/28/2008	161	185	3/28/2008		
12/29/2007	0	1/29/2008	207	0	2/29/2008	150	61	3/29/2008		
12/30/2007	88	1/30/2008	206	0				3/30/2008		
12/31/2007	0	1/31/2008	201	0				3/31/2008		

Total / month

Total mcf 7-7-46 BTR 12863 Total mcf 12-36-36 BTR 6083

Xero values from 1-16-08 to 2-20-08 on the 12-36-36 well were not recorded. Completion engineer indicated to the production forman this was not needed as the gas was being flared. The values can be estimated if the BLM would prefer at an average of 160.07 mcfd. This would add 4802.1 mcf to the 12-36 value for a total of 10885mcf. Both wells will average 43.4 mcf/d usage during the winter (75% run time factor) for a total of 81 days on the 7-7 & 59 days on the 12-36. These numbers back out the days that the wells were down for maintenance or not flowing.

Form 3160-4 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

AMENDED

FORM APPROVED OMB NO. 1004-0137 Expires: July 31, 2010

	V	VELL	COM	PLEII	ON OR	RECOMPLE	ETIO	N REPORT	AND I	.OG					erial No. 20G00056	808	
la. Type of b. Type of			Oil We New W	ll ell	Gas Well Work Over	Dry Deepen	Oti	ner ig Back 🔲 D	iff. Resvr.	,			6. 1		, Allottee or		Name
			Other: _					<u> </u>					7. U N/A		CA Agreemer	nt Nam	ie and No.
2. Name of Bill Barret	Operator t Corpora	tion		***************************************									8. Lease Name and Well No. # 7-7-46 BTR				
	288 1099 18th Street, Suite 2300 3a. Phone No. (include area code)											le)	9. /	FI Wel	l No.		
4. Location	Denver, CO 80202 (303) 312-8546 Location of Well (Report location clearly and in accordance with Federal requirements)*											1	013-33	3565 nd Pool or Ex			
	2323' F	SL x 2	2465' F	EL		adnee wan rede	i di Tel	<i>үшп етены)</i>						rieid ai amont	na Pool of Ex	piorate	ory
At surfac	e NW/4,	SE/4,	Sec. 7,			25' FNL x 2070	o' FEI	L					11.	Sec., T. Survey	, R., M., on I or Area Sec.	Block a 7, T4S,	nd R6W
	od. interval	•			: 2043' FE	ı							I_		or Parish		3. State
At total do	opui				T.D. Reache			16. Date Cor	anleted 1	1/01/	2007	-			ons (DF, RK	1	JT
07/14/200	7			09/28/2	007			□D & A	√ Z R	leady t	to Prod		591	5' GL	ons (Dr, KK	B, K1,	GL)*
18. Total Do) 87: 'D 85:			19. Pl	ug Back T.D.:	MD TVD			20. D	epth B	ridge Plug	Set:	MD TVD			
21. Type E	lectric & Ot	her Me	chanical	Logs Run	(Submit co	py of each)		***************************************				ll cored?	ΖN	lo 🔲	Yes (Submi		
Baker Hug											Vas DS Directio	T run? nal Survey?			Yes (Submit		
23. Casing					***************************************	···		Stage Cementer	T No.	of Sks	- Rr	Slurry	Val	Γ			
Hole Size	Size/Gi		Wt. (#/		Γορ (MD)	Bottom (MD	P)	Depth	,	of Cer		(BBI		Cen	ent Top*		Amount Pulled
20" 12 1/4"	16"Con		1/4 " v		face	40'			Grout					0'			***************************************
12 1/4	9 5/8" -	J-55	36 lbs	Sur	face	912'			120 sx			40 bbls.	•••••	0'			***************************************
8 3/4"	5 1/2" F	2110	17 lbs	_		8720			240 sx			49 bbls. 116 bbls		800'			
	1		17 100	·		10/20			1000 s			265 bbls		800			
***************************************					······································			***************************************	1,000		0,00	200 0010					
24. Tubing		Cat /M	D\ _ D	D-	.1. (345)			0 10 0	T			·····				·	
Size 2 7/8"	6400'	Set (M	<u>D) </u>	acker Der	otn (MID)	Size		Depth Set (MD)	Packer I	Jepth (MD)	Size		Dept	h Set (MD)	P	Packer Depth (MD)
25. Producii			I				26	. Perforation	Record				l			L	
A) North H	Formatio	n		7807'	Гор	Bottom 8054'		Perforated I	nterval			Size	No. I	loles	_	Perf.	Status
B) Wasato				5762'		7640'		,807' - 8,054'			0.43		21		Open		
C) Uteland				5375'		7040 5718'		,556' - 7,640' ,956' - 7,338'			0.43'		30 Open				
D)		••••••						,407' - 6,667'	······································		0.43				Open Open		
27. Acid, Fr			, Cemen	Squeeze	e, etc.							<u>-</u>			Орон		
7,807' - 8,0	Depth Inter	val		709/ 0	00 toom t	1001 004 bblo	1.00		Amount a				10				
7,556' - 7,6				70% C	02 I0am I	rac; 894 bbls.	LGC	6; 189 DDIS. 01	slickwai	er, 12	20,700	J lbs. 20 -	40 sa	nd.			* .
6,956' - 7,3				1528 b	bls. LGC6	; 165 bbls. of	slicky	vater, 110,588	lbs. 20	- 40 s	and.						
6,407' - 6,6	667'							ii									
28. Producti Date First	on - Interva Test Date	al A Hours	Гe		lo:1	[C]	11/	67.6				ls ;					
Produced	Test Date	Tested	1	oduction	Oil BBL		Water BBL	Oil Gra Corr. A		Gas Gra	s vity	Flow	ction M ina	ethod			
11/2/07	12/1/07	24	-	→	282	180	84	49		N/A	A		3				
	Tbg. Press.		- 1	Hr.	Oil	Gas	Water	1			ll Statu	ıs	***************************************	***************************************			
	Flwg. SI	Press.	Ra	te	BBL	MCF	BBL	Ratio		SI	- Wor	kover					
20/64	150	1000) -	-	282	180	84	49									
28a. Product Date First		/al B Hours	Те	et	Oil	Gas V	Water	Oil Gra	vity	Gas		Produc	tion M	athad			
Produced		Tested		duction	BBL	1	BBL	Corr. A			vity	10000	MOII IVI	Jaiou			
				→											RE(CEI	VED
	Гbg. Press. Flwg.	Csg. Press.	24 Rai	Hr.	Oil BBL	1 1	Water BBL	Gas/Oil Ratio		Wel	ll Statu	S					
E	SI	1000.	-	→	DOL	IVICI I	UDL	Kano							APF	? 1 <i>i</i>	7 2008

INTERVAI	(Top/Bot-MD)	SIZE	NO. HOLES	PERFORATION STATUS
5,886'	6,104'	0.430"	30	Open
5,582'	5,791'	0.430"	24	Open
5,375'	5,531'	0.430"	21	Open

27. ACID, FRACTURE,	27. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)								
DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL								
5,886' - 6,104'	1803 bbls. LGC6; 145 bbls. of slickwater, 140,896 lbs. 20 - 40 sand.								
5,582' – 5,791'	2086 bbls. LGC6; 132 bbls. of slickwater, 161,638 lbs. 20 - 40 sand.								
5,375' – 5,531'	1418 bbls. LGC6; 126 bbls. of slickwater, 106,736 lbs. 20 - 40 sand.								

r '													
	uction - Inte				,								
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method				
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status					
	action - Inte												
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Gas Production Method Gravity				
	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status					
29. Dispos	l sition of Gas	S (Solid, us	ed for fuel, ve	nted, etc.)									
30. Sumn	nary of Poro	us Zones	(Include Aqui	fers):				31. Formati	on (Log) Markers				
Show a includi recover	ng depth int	zones of perval teste	porosity and cod, cushion use	ontents the	reof: Cored of open, flowing	intervals and all ng and shut-in	l drill-stem tests, pressures and						
Ρ		Т	D-44		Dane	mintiana Canta			N	Тор			
rom	nation	Тор	Bottom		Desc	criptions, Conte	mis, etc.		Name	Meas. Depth			
								Castle Peak Uteland Butte		5156' 5467'			
								TD		8731'			
32. Addit	ional remark	L cs (include	plugging prod	i cedure):									
33. Indica	te which ite	ms have b	een attached b	y placing	check in the	appropriate bo	xes:						
Elec	ctrical/Mecha	nical Logs	(1 full set req'	d.)		Geologic Repor			☐ Directional Survey				
N	Sundry Notice for plugging and cement verification Core Analysis Other: 4. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)* Name (please print) Reed Haddock Title Permit Analyst Signature Date 12/05/2007												

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

(Form 3160-4, page 2)



DEPARTMENT OF NATURAL RESOURCES	
DIVISION OF OIL, GAS AND MINING	5. LEASE DESIGNATION AND SERIAL NUMBER: BIA-EDA-20G0005608
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	7. UNIT OF CA AGREEMENT NAME: N/A
1. TYPE OF WELL OIL WELL 🗹 GAS WELL 🗌 OTHER	8. WELL NAME and NUMBER: # 7-7-46 BTR
2. NAME OF OPERATOR: Bill Barrett Corporation	9. API NUMBER: 4301333565
3. ADDRESS OF OPERATOR: PHONE NUMBER:	10. FIELD AND POOL, OR WILDCAT:
1099 18th Street, Suite 2300 CITY Denver STATE CO ZIP 80202 (303) 312-8546 4. LOCATION OF WELL	Altamont
FOOTAGES AT SURFACE: 2323' FSL x 2465' FEL	COUNTY: Duchesne
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSE 7 T4S R6W	STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION TYPE OF ACTION	
NOTICE OF INTENT	REPERFORATE CURRENT FORMATION
(Submit in Duplicate) ALTER CASING FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start: CASING REPAIR NEW CONSTRUCTION	TEMPORARILY ABANDON
CHANGE TO PREVIOUS PLANS OPERATOR CHANGE	TUBING REPAIR
CHANGE TUBING PLUG AND ABANDON	VENT OR FLARE
SUBSEQUENT REPORT (Submit Original Form Only) CHANGE WELL NAME PLUG BACK	WATER DISPOSAL
Date of work completion: CHANGE WELL STATUS PRODUCTION (START/RESUME)	WATER SHUT-OFF
COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE	✓ other: Request for "Wildcat" Status
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volum	
Bill Barrett Corporation (BBC) is requesting for "Wildcat" status for # 7-7-46 BTR well. Plea radius around the location, the completion report, and a cross section showing the perfs of t producing formations for this well is the North Horn (7807' - 8054'); Wasatch (5762' - 7640') There are no wells within a 1 mile radius of the bottom hole location. There is no known generous information available. Also, attached find a Memorandum dated April 28, 2008 concerning (Re: Tax exemption un history of the "Blacktail Ridge Area Spacing Orders" from 1971 to present; and a CD disc on	se find a map showing a one-mile the # 7-7-46 BTR. The known and Uteland Butte (5375' - 5718'). ologic structure and BBC has no der Section 59-5-102(2)(d)); the
current drilled wells in the Blacktail Ridge area. This disc contains complete drilling and cor BTR.	
COPY SENT TO OPERATOR	RECEIVED
Date: 6.12.2008 Initials: 45	MAY U Z 2008
	NV. OF OIL, GAS & MINING
NAME (PLEASE PRINT) Reed Haddock TITLE Permit Analyst	
Vand Hardeliel	
SIGNATURE DATE 4/30/2000	
This space for State use only) REQUEST DENIED Utah Division of Oil, Gas and Mining Date: 6/10/08	
5/2000) (See Instructions on Reverse Side)	

* See attached Statement of Basis



Uintah Engineering & Land Surveying 85 South 200 East Vernal, Utah 84078 (435) 789-1017 * FAX (435) 789-1813

T O P O G R A P H I C O2 O1 O7
M A P ONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: L.K. REVISED: 00-00-00



Memorandum

To: Utah Division of Oil, Gas and Mining

From: Bill Barrett Corporation

Kurt Reinecke, SVP Exploration kreinecke@billbarrettcorp.com

303-312-8113

Re: Tax exemption under Section 59-5-102(2)(d)

Date: April 28, 2008

In order to assist in the determination of well classifications for six recently drilled oil wells west of Duchesne, Utah, Bill Barrett Corporation offers the following information.

The overall context for 5 of these 6 wells is that they were drilled as part of a continuous drilling program to determine if results from historically poor, and sub-commercial, producing wells truly did defined the edge of Cedar Rim field. Additionally, since these wells were drilled as part of a continuous program, Bill Barrett Corporation was unable to evaluate the completion results on some of its wells prior to drilling the successive location, thereby further increasing the commercial risk. Results from these 6 high risk wells has encouraged us that we can indeed extend this field beyond its present limits, however we have paid the price for this exploration work via several apparently non-commercial wells.

1. 7-7-46 BTR

- a. Classification: Wildcat
- b. Location (2323 FSL x 2465 FEL sec. 7 T4S, R6W) This well was spud on 7/14/2007. When drilled, no other well was located within 1 mile of its bottom hole location (2141 FNL x 2043 FEL), see attached forms, cross section and associated map. The 7-7-46 BTR is completed in generally the same Green River Wasatch interval as wells to the north, but we also have been completing deeper zones. This well was a significant southwesterly step out from previous uneconomic drilling that had defined the edge of Cedar Rim field for 20 years. This well supports the idea that the field is a fractured stratigraphic oil trap and not a known geologic structure.

2. 12-36-36 BTR

- a. Classification: Development [no forms submitted]
- b. Location (1837 FSL x 704 FWL sec. 36 T3S R6W) This well was spud 10/8/2007, and is considered development because current production exists within 1 mile of the location (see attached map on cross section). However because the well was a step out away from known production, and also drilled to test deeper potential horizons, it is considered a high risk development well.

3. 7-28-46 DLB

- a. Classification: Wildcat
- b. Location (2028 FNL x 543 FEL sec. 28 T4S R6W) This well was spud on 11/12/2007. When drilled, no other producing well was located within 1 mile of its bottom hole location (1963 FNL x 1786 FEL), see attached forms and Exhibit A. Four wells had been drilled within 1 mile during the 1978-79 timeframe. Results from these wells showed either no production to minor sub-economic production. The 7-28-46 DLB is completed in generally the same Green River Wasatch interval as wells to the north, but we also have been completing deeper zones (see cross section). This well was a significant southwesterly step out from previous uneconomic drilling that had defined the edge of Cedar Rim field for 20 years. This well supports the idea that the field is a fractured stratigraphic oil trap and not a known geologic structure.

4. 7-21-46 DLB

- a. Classification: Wildcat
- b. Location (1795 FSL x 1718 FEL sec. 21 T4S R6W) This well was spud 12/2/2007 directly after the 7-28-46 BTR, only the typical non-descript openhole logs were available, no completion work had yet been performed on 7-28-46 DLB. Two historical wells had been drilled within 1 mile during the 1978-79 timeframe. Results from these wells showed either no production to minor sub-economic production. The 7-21-46 DLB is completed in generally the same Green River Wasatch interval as wells to the north, but we also have been completing deeper zones (see cross section). This well was a significant southwesterly step out from previous uneconomic drilling that had defined the edge of Cedar Rim field for 20 years. This well supports the idea that the field is a fractured stratigraphic oil trap and not a known geologic structure.

5. **5-5-46 BTR**

- a. Classification: Wildcat
- b. Location (1718 FNL x 640 FWL sec. 5 T4S R6W) This well was spud 12/7/2007. When this well was drilled two wells had been drilled within the 1 mile radius. Both these wells, drilled in 1985 and 1996, yielded subcommercial quantities of production supporting the conclusion that these wells helped defined the southwestern edge of Cedar Rim field. The 5-5-46 BTR was a high risk well that challenged the field edge concept and was completed in a similar Green River Wasatch interval as the two historical wells, but used hydraulic fracturing to stimulate the wellbore. This well supports the idea that the field is a fractured stratigraphic oil trap and not a known geologic structure.

6. 7-20-46 DLB

- a. Classification: Wildcat
- b. Location (2250 FNL x 2500 FWL sec 20 T4S R6W) This well was spud on 12/28/2007. When this well was drilled 1 historical well existed within 1 mile. This well, drilled in 1979, produced sub-commercial amounts of oil and gas. The newly drilled 7-21-46 DLB also existed within the 1 mile radius but this well had not been completed at the time drilling commenced on the 7-20-46 DLB. The 7-20-46 DLB is completed in generally the same Green River Wasatch interval as wells to the north, but we also have been completing deeper zones (see cross section). This well was a significant southwesterly step out from previous uneconomic drilling that had defined the edge of Cedar Rim field for 20 years. This well supports the idea that the field is a fractured stratigraphic oil trap and not a known geologic structure.

Explanation of Cross Section

- This display shows both newly drilled wells by BBC, as well as historical wells. Note how BBC well are generally drilled deeper than historical wells.
- Gamma ray and resistivity curves are presented.
- Log headers show well name and surface locations.
- Formation correlations used by Bill Barrett Corporation are indicated.
- Red markings to the left of the depth column on each well indicate where the well is completed.
- If production existed then the cumulative amount in BOE is shown along with the decline curve graph below the logs.
- The current operator is also shown below the logs.

The <u>map in the lower right hand corner</u> shows the general north to south cross section line.

- One mile radius circles, centered on the bottom hole location, are shown for each well that Bill Barrett Corporation has drilled.
- Posted at the well symbol is the well number on top and the cumulative production in MMBOE below the well symbol.
- The color highlight at each symbol shows a color representation of the wells cumulative MMBOE.



BLACKTAIL RIDGE AREA SPACING ORDERS

Date: April 28, 2008 To: Doug Gundry-White

I. Second Amended Spacing Order - April 23, 2008 Hearing

<u>Cause</u>	Summary of Order - Spacing Rules
139-83	Wells located anywhere in section, 660' from the section
	lines and no closer than 1,320' from any well producing
	from the same formation.
Lands	Township 3 South, Range 5 West, USM
	Sections 1 to 36
	Township 4 South, Range 5 West, USM
	Sections 1 to 6
	Township 3 South, Range 6 West, USM

Sections 1 to 12

Township 3 South, Range 7 West, USM Sections 1 to 12, 14 to 23, 26 to 29, and 32 to 35

II. Spacing Rules Previously in Effect in Blacktail Ridge Area Lower Green River to Base of the Wasatch (640 acre units)

<u>Cause</u>	Summary of Order - Spacing Rules
139-77	Wells located anywhere in section, 660' from the section lines and no closer than 1,320' from any well producing from the same formation.
139-42	Two wells allowed in each section, located at least 1,320' from any existing well and 660" from unit boundary (section line).
139-8	Wells to be located in the center of the NE¼ with tolerance of 660' in any direction (also applies to #139-17 lands).
140-6	Wells to be located in the SW¼NE¼ with a tolerance of 660' in any direction.

Statewide Wells to be located in center of 40 acre qtr-qtr, with tolerance of 200' in any direction (Utah Administrative Rule R649-3-2)

III. Prior Spacing Orders and Lands

1. BBC Spacing Order #139-77 (June 18, 2007)

All wells shall be drilled 660' from the boundaries of the unit (section) and no closer than 1,320' from a well producing from the same formations without an exception location. No more than 2 wells producing from the Lower Green River - Wasatch formations without Board authorization.

3S	6W	15, 16, 17, 18, 19, 20, 21, 22 and 27, 28, 29, 30, 31, 32, 33, 34	All	Amends #139-8 for Sections 13, 14, 23,24, 25, 26, 35, 36; amends #139-42 for all lands; amends 140-6 for 13, 24, 25, 36
48	6W	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18	All	Amends #139-17 for Sections 3 to 18; amends #139-42 for all lands
38	7W	13, 24, 25 and 36	All	Amends #140-15 for 13 and 25; amends #139-42 and 140-6 for all lands

2. Spacing Order 139-42

(April 1, 1985)

Effective 4-12-1985, prior orders in Cause Nos. 139-3; 139-4; 139-5; 139-8; 139-17 (Altamont); 131-11; 131-14; 131-24; 131-27; 131-32; 131-33; 131-34; 131-45; 131-55 (Bluebell); 140-6; and 140-7 (Cedar Rim-Sink Draw) are modified as of 4-12-1985 to allow for <u>Additional Wells</u> to be drilled in each section. The lower Green River/Wasatch formation is a pool as defined in Utah Code Ann. § 40-6-2(9) (1953, as amended).

Two wells may be drilled in each section based on geologic and engineering data to justify the additional well for recovery when economically feasible. Any additional well must be located at least 1,320' from the existing well on the unit and not closer than 660' from the boundary of the unit; and no two wells may be drilled in the same quarter section. All prior orders not consistent with this order are vacated (but existing orders that specify location of the initial wells in each section are not vacated).

3S	5W	1 to 36	AII	Not amended by #139-77 To be amended by April 2008 BBC Application for Sections 1 to 36
3\$	6W	1 to 36	All	Amended by #139-77 for Sections 13 to 36 To be amended by April 2008 BBC Application for Sections 1 to 12
3\$	7W	1 to 36	All	Amended by #139-77 for Sections 13, 24, 25 and 36 To be amended by April 2008 BBC Application for Sections 1 to 12; 14 to 23; 26, 27, 28, 29, 32, 33, 34 and 35

3. Spacing Order 139-8

(September 20, 1972)

640 acre drilling units established from top of the Lower Green River to base of the Green River-Wasatch formation.

Amends prior Orders entered in Causes 139-3; 139-4; and 139-5.

Spaced interval is now defined as from the top of the Lower Green River formation (TGR3 marker) to the base of the Green River-Wasatch formation (top of Cretaceous) by reference to the stratigraphic equivalent referenced against the Shell - Ute 1-18B5 and Brotherson 1-11B4 wells.

Permitted wells shall be located in the center of the NE¼ of the section comprising the drilling unit, with a tolerance of 660' in any direction, except for exceptions granted without a hearing for topography.

All prior orders not consistent with this order are hereby vacated.

45	5W	1, 2, 3, 4, 5, 6	All	
48	6W	1 and 2		Amended by BBC Spacing Order #139-77

4. Spacing Order 140-6

(August 11, 1971)

Makes permanent the one year spacing order in Cause No. 140-1 (8-19-1970), which set section drilling units for Lower Green River and Wasatch Formations on the lands in Section 3S-6W and 3S-7W (described below), and sets tolerance for each well as 220' from center of the SW¼NE¼ of each section on 640 acre spacing for Green River and Wasatch.

The Board made findings that there is communication between wells in adjacent sections and that one well will effectively drain the oil in one section.

By Order entered 2-17-1971 in Cause No. 140-4, Order 140-1 was extended and enlarged to include lands in 2S-7W (31 to 35); 2S-8W (31 to 36); 3S-7W (2 to 7 and 18, 19, 30 and 31); and 3S-8W (1 to 36).

The Order is now made permanent that drilling units shall be located in the center of the SW4NE4 of each section with a tolerance of 660' in any direction.

3S	6W	7, 8, 9, 10	All	Not Amended by #139-77 To be amended by April 2008 BBC Application for Sections 7, 8, 9 and 10
3S	7W	1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 32, 33, 34, 35, 36		Amended by #139-77 for Sections 13, 24, 25 and 36 To be amended by April 2008 BBC Application for Sections 1 to 12; 14 to 23; 26, 27, 28, 29, 32, 33, 34 and 35

5. Statewide Rules - Lands not Subject to Spacing Orders

48	5W	7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18	All	State Location (Siting) Rules.
48	7W	1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 13, 14, 15, 16		State Location (Siting) Rules.

IV. Notice Requirements - Spacing Area and Adjacent Lands

Under Order #139-77, working interest owners and operators of <u>adjacent</u> drilling units impacted by modification of the 660' tolerance window (under Order #140-6) were also notified, including Sections 7 to 11 of T3S, R6W and Section 12 of T3S, R7W.

By the same logic, the <u>adjacent</u> working interest owners and operators of the lands subject to Order #140-6 (which includes the lands from #140-1 and #140-4) should also be notified, including:

T3S, R7W Sections 30 and 31

T3S, R8W Sections 1, 12, 13, 24, 25 and 36

T2S, R7W Sections 31 to 36

T2S, R8W Section 36

Form 3160-4 * (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0137 Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

WELL COMPLETION OR RECOMPLETION REPORT AND LOG										5. Lease Serial No.					
												BIA	-EDA-	20G00056	08
la. Type of	Well		Oil Well		Gas Well	Dry	Other					,		Allottee or T	ribe Name
o, type of	Completion				Work Over	Deepen 🗆	Plug Back	☐ Dif	f. Resvr.,			larrer w	Indian		· None and Ma
Other: 2. Name of Operator										N/A	7. Unit or CA Agreement Name and No. N/A				
Bill Barrett Corporation										.ease Na -7-46 B	me and Well TR	No.			
3. Address	1099 18th St Denver, CO		uite 2300					a. Phone (303) 312	No. (include 2-8546	e area coa	le)		AFI Wel 013-33		
A. T. Sarahan (D. 1997)											************	d Pool or Ex	oloratory		
	2323' F	SL x 2	2465' FEL									Alta	mont		
At surface NW/4, SE/4, Sec. 7, T4S, R6W SW/4, NE/4, 2125' FNL x 2070' FEL							11.	11. Sec., T., R., M., on Block and Survey or Area Sec. 7, 74S, R6W							
At top prod. interval reported below								12.	County	or Parish	13. State				
At total depth SW/4, NE/4, 2141' FNL x 2043' FEL							Duc	chesne	County	UT					
14. Date Sp 07/14/200				Date T /28/20	.D. Reache	đ		Date Com	pleted 11/0		,	17.	Elevatio	ns (DF, RKI	3, RT, GL)*
	epth: MD		31'			ig Back T.D.; A	MD L	JUAA		dy to Prod Depth B		2 Set:	5' GL MD		
21 Tana B	TVi lectric & Oth	D 859	95'	D	(0.1)	1	`VD						TVD		
	ghes Triple			gs icun	(Submit co	oy of each)]22.	Was wo Was DS				Yes (Submit Yes (Submit	
***************************************	and Liner R		*****	7 stripe	s sat in wel	f)				Directio	nal Surve			Yes (Submit	
Hole Size	Size/Gra		Wt. (#/ft.)	T	op (MD)	Bottom (MD)		Comenter	No. of		Slurr	y Vol.	Com	ent Top*	Amount Dulls 4
20"	16"Conc	luct	1/4 " wal			40'	Do	cpth	Type of	***************************************	(B)	3L)	ļ	cir rop.	Amount Pulled
12 1/4"	9 5/8"		***************************************	Surf		912'	Grout Cmt. 120 sxs - HLC 40 bbls.						0'		
		1		1		10.5	240 sxs -AG300 49 bbls.					·····			· · · · · · · · · · · · · · · · · · ·
8 3/4"	5 1/2" P	110	17 lbs.	1		8720'		170 sxs - HiFill 116 bbls.					800'		
								1000 sxs- 50/50 265 bbls.					-		
													<u> </u>		
24. Tubing Size	Record Depth S	set (M	D) Pac	er Dent	h (MD)	Size	Denth S	ct (MD)	Packer Dep	vh (MD) I	Si		Desi	. C (1/D)	5.1. 5
2 7/8"	6400'				\2.2.2.		1 200	GC (1112)	Tacket Dep	na (NO)		2.0	Бера	h Set (MD)	Packer Depth (MD)
25. Produci	ing Intervals Formation			~		D		rforation				~i			
A) North F		1		807'	ор	Bottom 8054'	7,807' -	rforated In	terval	0.43	Size "	No. I	loles	Onen	Perf. Status
B) Wasate	ch			762'		7640'						30		Open	
C) Uteland	d Butte			375	Ī	5718'				18					
D)							6,407' -	6,667'	***************************************	0.43	1	30		Open	
27. Acid, F	racture, Trea		Cement S	queeze,	etc.										
7,807' - 8,		/8:	7	0% CC	02 foam f	rac; 894 bbls. L	GC6: 189		Amount and			40.00			
7,556' - 7,					22 /00	au, 001 bbio. L	.000, 100	0013. 01	SHORWARE	, 120,70	U 1DS. 20	40 50	nu.		
6,956' - 7,	338'		1	528 bt	ols. LGC6	; 165 bbls. of s	lickwater,	110,588	lbs. 20 - 4	0 sand.	***************************************	~			
6,407' - 6,	***************************************							***************************************							
28. Product Date First	ion - Interva Test Date		Test	····	Oil	Gas W	/ater	2011.0		lo.	10				
Produced		Tested	Produ	ction	BBL		BL	Oil Grav Corr. AI		Gas Gravity		luction M wing	iethod		
11/2/07	12/1/07	24	- XMINITE		282	180 8	34	49		N/A		Ū			
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hi Rate		Oil BBL		/ater BL	Gas/Oil Ratio		Well Stat		·····			
20/64	SI								-	SI - Wo	rkover				
	150 tion - Interv	1000 at B	<u>'</u>		282	180 8	34	49			***************************************	~			
Date First	Test Date	Hours	Test		Oil		/ater	Oil Grav	/ity	Gaş	Proc	uction M	cthod		
Produced	***************************************	Tested	Produ		BBL	MCF B	BL	Corr. AF		Gravity					
	Tbg. Press.	Csg.	24 Hr		Oil	Gas W	ater /	Gas/Oil		Well Stati	ıs				
		Press.	Rate		BBL		BL	Ratio			-				
			ROSSING												
*(See instr	uctions and	spaces	for addition	nal data	a on page 2)								***************************************	

28b. Prod	uction - Inte	rval C					T-7000000000000000000000000000000000000			
Date First	Test Date	Hours	Test	Oil	Gas	Water	Oil Gravity	Gas	Production Method	
Produced		Tested	Production	BBL	MCF	BBL	Corr. API	Gravity		
										•
Choke	Tbg. Press.	Csg.	24 Hr.	Oil	Gas	Water	Gas/Oil	Well Status	-	
Size	Flwg. SI	Press.	Rate	BBL	MCF	BBL	Ratio			
	[-					-		
28c. Produ	uction - Inte	rval D	<u></u>	.1						
	Test Date	Hours	Test	Oil	Gas	Water	Oil Gravity	Gas	Production Method	
Produced		Tested	Production	BBL	MCF	BBL	Corr. API	Gravity		
					İ				į	
Choke	Tbg. Press.		24 Hr.	Oil	Gas	Water	Gas/Oil	Well Status	i	
Size	Flwg. SI	Press.	Rate	BBL	MCF	BBL	Ratio			
	51		-					ļ		
29. Dispos	sition of Gas	(Solid, us	ed for fuel, ve.	nted, etc.)		<u> </u>				
30 Summ	ary of Poro	ue Zonae /	Include Aqui	Carel		······································		21 5	eine (I a. N. M. I	
Jo. Junin	mry 01 1 010	us zones (include Aqui	icisj.				31. Porma	tion (Log) Markers	
Show a	ıll important	zones of p	orosity and co	ontents thei	eof: Cored int	ervals and all	drill-stem tests.	ļ		
includi	ng depth int	erval tested	d, cushion use	d, time too	l open, flowing	and shut-in p	ressures and	}		
recover	ies.									
***************************************		T	1	1	······································	······································	**************************************			Тор
Forn	nation	Тор	Bottom		Descrip	ptions, Conten	its, etc.		Name	
-										Meas. Depth
								į		
								Castle Peak		54561
								Uteland But		5156' 5467'
		į								
		İ								
		ĺ								
		[
								TD		8731'
32. Additi	onal remark	s (include	plugging proc	edure):						
		(h.028.02 h.04	.000).						
33. Indica	te which ite	ms have be	en attached b	v placing a	check in the ap	propriate box	es.	WWW.marrow.		
Elec	trical/Mecha	nical Logs	(I full set req'o	i.)	□G	cologic Report	☐ DST	Report	☐ Directional Survey	
Sunc	dry Notice fo	r plugging	and coment ver	rification	□c	ore Analysis	Othe	r:		
24 11 1		- 4 4 L - C		. L . d : . C					***************************************	
					nation is compl	ete and correc			records (see attached instructions)	*
N	ame (please ₎	priyle) Re	ed Haddock	1-1	1->		Title Permit	Analyst	Рефентентентика и при выполнения и при при при при при при при при при п	a parameter and a space and a
Si	gnature 4	1000	Hac	ICCOL.	1		Date 12/05/20	007		
	F	~=~							- макен макен турко штом и поможение раму или с положерение пункория су на ценула раздену од 1971 годину.	**A mendaduran kalandaran kenduda dimension
Title 18 U.	S.C. Section	1001 and	Title 43 U.S.	C. Section	1212, make it a	crime for any	person knowing	ly and willfully to	o make to any department or agenc	y of the United States any
						· · · · · · · · · · · · · · · · · ·	Person Know mg	וו ענוטונווויי בייים כי	o make to any department or agenc	y or the Onned States ally

false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

INTERVAL	(Top/Bot-MD)	SIZE	NO. HOLES	PERFORATION STATUS
5,886'	6,104'	0.430"	30	Open
5,582	5,791	0.430"	24	Open
5,375'	5,531'	0.430"	21	Open

27. ACID, FRACTURE, TREAT	IMENT, CEMENT SQUEEZE, ETC. (cont.)
DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5,886' - 6,104'	1803 bbls. LGC6; 145 bbls. of slickwater, 140,896 lbs. 20 - 40 sand.
5,582' – 5.791'	2086 bbls. LGC6; 132 bbls. of slickwater, 161,638 lbs. 20 - 40 sand.
5,375' – 5,531'	1418 bbls. LGC6; 126 bbls. of slickwater, 106,736 lbs. 20 - 40 sand.

Directional Plots

Wellcore

Location Information

Business Unit

Well:

#7-7-46 BTR

API #/License : 43-013-33565

Operations

Uinta

Project :

Surface Location :

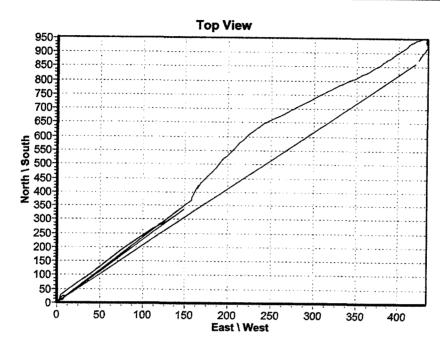
NWSE-7-4S-6W-W30M

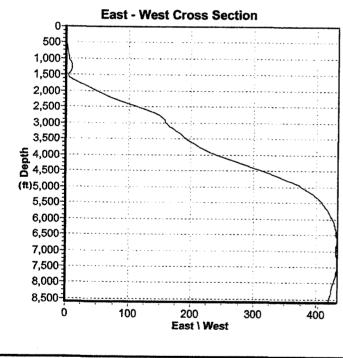
Phase/Area

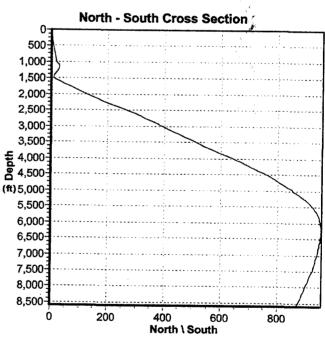
Bottom Hole Location :

Black Tail Ridge

SWNE-7-4S-6W-W30M







Report by Decision Dynamics Technology Ltd. Wellcore

Version 4.3.3

December 04, 2007 15:#8-551

Directional Surveys

Wellcore

Location Information

Business Unit

Operations

Project Uinta Phase/Area Black Tail Ridge Well Name

#7-7-46 BTR

Surface Location NWSE-7-4S-6W-W30M

Main Hole :

Bottom Hole Information

UWI	API#
SWNE-7-4S-6W-W30M	43-013-33565

Survey Section De	<u>etails</u>				
Section	KOP (fi)	KOP Date	TMD (ft)	TVD. (ft)	TD/Date

Survey Information

Survey Company	Direction of Vertical Section (°)	Magnetic Dec. Correction (*)
Sharewell / WEATHERFORD	23.84	12.04

<u>Details</u>		Corre	ected						. ;		
Extrap.	Depth MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Sub Sea (ft)	Northings (ft)	N/S	Eastings (ft)	E/W	Vertical Section (ft)	Dog Leg
				0.00	19.50	0.00	N	0.00	E	0.00	0.00
alaugusta hiinabahahahahan satur				0.00	19.50	0.00	N	0.00	E	0.00	0.00
·				0.00	19.50	0.00	N	0.00	E	0.00	0.00
				0.00	19.50	0.00	N	0.00	E	0.00	0.00
				0.00	19.50	0.00	N	0.00	E	0.00	0.00
				0.00	19.50	0.00	N	0.00	E	0.00	0.00
***	 			0.00	19.50	0.00	N	0.00	E	0.00	0.00
				0.00	19.50	0.00	N	0.00	E	0.00	0.00
				0.00	19.50	0.00	N	0.00	E	0.00	0.00
· · · · · · · · · · · · · · · · · · ·				0.00	19.50	0.00	N	0.00	E	0.00	0.00
~~~~~~~				0.00	19.50	0.00	N	0.00	E	0.00	0.00
		*************************	***************************************	0.00	19.50	0.00	N	0.00	E	0.00	0.00
	1			0.00	19.50	0.00	N	0.00	E	0.00	0.00
	365.00	0.75	194.10	364.98	-345.48	2.32	s	0.58	w	-2.35	0.00
	805.00	2.00	194.10	804.83	-785.33	12.56	S	3.15	W	-12.76	0.28
	964.00	2.20	194.10	963.72	-944.22	18.21	S	4.57	W	-18.50	0.13
	1025.00	3.90	192.60	1024.63	-1005.13	21.37	S	5.31	W	-21.69	2.79
	1105.00	3.00	220.60	1104.48	-1084.98	25.61	S	7.27	W	-26.36	2.75
	1200.00	1.70	347.70	1199.40	-1179.90	26.12	S	9.18	W	-20.36	4.47
	1295.00	5.20	2.80	1294.18	-1274.68	20.45	S	9.17	W	-22.45	
	1391.00	8.70	13.40	1389.43	-1369.93	9.04	S	7.38	W	<del></del>	3.77
***************************************	1486.00	11.20	19.80	1482.98	-1463.48	6.63	N	2.59	W	-11.25	3.87
	4									5.02	2.87
******	1581.00	14.30	20.20	1575.60	-1556.10	26.32	N	4.59	E	25.93	3.26
	1676.00	15.10	21.90	1667.49	-1647.99	48.82	N	13.25	E	50.01	0.96
	1772.00	15.20	25.80	1760.16	~1740.66	71.75	N	23.39	E	75.08	1.07
	1867.00	13.20	25.10	1852.24	-1832.74	92.78	N	33.42	E	98.37	2.11
	1962.00	14.40	22.55	1944.49	-1924.99	113.51	N	42.55	E	121.03	1.42
	2055.00	16.60	23.90	2034.09	-2014.59	136.34	N	52.36	E	145.87	2.40
	2149.00 2244.00	15.80	20.90	2124.36	-2104.86	160.57	N	62.37	E	172.08	1.23
	<del></del>	16.00	25.00	2215.72	-2196.22	184.52	N	72.52	E	198.09	1.20
***************************************	2339.00	18.20	27.40	2306.51	-2287.01	209.56	N	84.88	E	225.98	2.43
	2434.00	19.20	24.30	2396.49	-2376.99	236.97	N	98.13	E	256.41	1.48
	2530.00	19.20	28.60	2487.15	-2467.65	265.21	N	112.19	E	287.93	1.47
	2623.00	18.00	28.60	2575.29	-2555.79	291.26	N	126.38	E	317.49	1.29
	2719.00	15.10	26.60	2667.28	-2647.78	315.46	N	139.08	E	344.76	3.08
	2805.00	14.00	23.90	2750.52	-2731.02	334.99	N	148.31	E	366.35	1.50
	2954.00	11.55	3.43	2895.80	-2876.30	366.35	N	156.51	E	398.35	3.43
	2985.00	12.25	4.42	2926.13	-2906.63	372.73	N	156.95	E	404.36	2.35
	3017.00	12.25	5.67	2957.40	-2937.90	379.49	N	157.54	E	410.79	0.83
	3048.00	12.88	7.92	2987.66	-2968.16	386.19	N	158.35	E	417.24	2.57
	3080.00	13.13	10.29	3018.84	-2999.34	393.30	N	159.49	E	424.20	1.84
	3111.00	13.81	11.67	3048.98	-3029.48	400.38	N	160.86	E	431.24	2.43
	3141.00	13.56	12.54	3078.13	-3058.63	407.32	N	162.35	E	438.19	1.08
	3171.00	14.56	13.29	3107.23	-3087.73	414.43	N	163.98	E	445.35	3.39
	3203.00	14.69	14.92	3138.20	-3118.70	422.26	N	165.95	E	453.31	1,35
	3235.00	15.31	15.92	3169.10	-3149.60	430.25	N	168.15	E	461.50	2.10

Location Information

**Business Unit** 

Operations

Project Uinta

Phase/Area Black Tail Ridge Well Name #7-7-46 BTR

Surface Location NWSE-7-4S-6W-W30M Main Hole:

\$3990.00	Extrap.	Depth MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Sub Sea (ft)	Northings (ft)	N/S	Eastings (ft)	E/W	Vertical Section (ft)	Dog Leg
3891.00				16.42	3230.02	-3210.52	445.68	N	172.63	E	477.43	1.69
3446.00					3260.12	i	452.79	N	174.76	E	484.79	2.66
1467 (00   13.19   15.04   3472.65   3384.15   488.36   N   165.76   E   527.76   1.49			ļ				<del></del>	<del> </del>	176.98	-	492.29	1.38
3550.00			ļ				<del></del>		<del></del>	<del> </del>	507.25	0.52
3615300			<del></del>			<del></del>	ļ	<del></del>	<del></del>	<u> </u>	521.80	1.49
\$864.00   \$13.75   \$20.87   \$398.61   \$397.17   \$522.22   N   \$96.33   E   \$59.60   \$2.87   \$398.00   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60   \$39.60						ļ	<del></del>	···-		<del></del>	·	1.07
\$379.00						<del></del>	<del></del>	-	<del> </del>	<u> </u>	<del></del>	1.87
3777.00   15.44   19.17   3856.62   3-397.12   544.27   N   203.97   E   500.33   1.23				***************************************			<del></del>		<del> </del>	<del></del>	<u> </u>	
3801.00							<u> </u>	<del></del>	ļ	<del></del>		
3982.00							<del> </del>		ļ	<del></del>	·	
3898.00   15.88   18.42   3806.61   3787.11   585.15   N   215.57   E   62.77   1.98							<del></del>	- <del> </del>		<u> </u>	· · · · · · · · · · · · · · · · · · ·	
39924-00										<del> </del>		
3986.00   16.38   21.47   3985.38   3-875.44   3-867.64   5-90.61   5   N   222.37   E   640.16   1.57										·····	<del> </del>	
3988.00   16.38   21.17   3985.93   3873.43   609.49   N   228.41   E   648.69   0.28										<b></b>	ļl	
4017.00   18.31   22.17   3926.51   .3096.01   618.07   N   228.83   E   657.83   6.30		3986.00					ļ				<del> </del>	
4048.00   16.56   23.04   3955.00   3938.50   626.65   N   232.38   E   667.11   5.71		4017.00		22.17			<del> </del>				<del></del>	
4980.00		4048.00	16.56	23.04	3955.09		ļ			<del></del>	<del>       </del>	
4142.00   16.94   30.67   4045.17   4025.67   650.75   N   244.10   E   693.89   2.94		4080.00	16.38	23.17	3985.77	-3966.27	634.99	N	235.95	E	676.18	
4205.00		4111.00	16.63	27.70	4015.50	-3996.00	642.94	N	239.73	E	684.98	4.23
4297.00		4142.00		30.67	4045.17	-4025.67	650.75	N	244.10	E	693.89	2.94
4288.00			16.50	33.54	4105.51	-4086.01	666.10	N	253.72	E	711.82	1.48
4300.00					4136.28	-4116.78	673.37	N	258.63	E	720.45	3.82
4332.00 15.44 31.54 4228.03 4208.53 693.95 N 272.20 E 744.76 2.32 4384.00 15.69 31.67 4258.56 4238.38 701.26 N 276.70 E 753.27 0.79 4395.00 15.83 31.79 4258.56 4238.38 701.26 N 276.70 E 753.27 0.79 4395.00 15.53 31.79 4395.00 4330.00 722.38 N 281.07 E 7561.49 1.00 4427.00 15.51 32.29 4319.58 4300.08 715.50 N 255.56 E 769.97 0.47 4458.00 15.56 31.04 4390.56 4330.00 722.38 N 288.77 E 777.91 0.91 4490.00 15.56 31.04 4390.36 4350.86 729.60 N 294.27 E 786.28 1.68 4522.00 16.00 30.29 4411.16 4391.66 737.08 N 298.71 E 794.92 1.52 4553.00 15.06 30.17 4441.02 4421.52 744.25 N 302.89 E 803.17 3.03 4585.00 14.50 30.67 4471.97 4452.47 751.29 N 307.02 E 811.28 1.79 455.00 14.88 35.04 4502.92 4483.42 758.10 N 311.42 E 819.29 3.66 4649.00 14.72 37.16 4533.86 4544.36 770.85 N 320.89 E 834.87 1.36 4680.00 14.33 36.17 453.86 4544.36 770.85 N 320.89 E 834.87 1.36 4744.00 12.88 35.94 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4565.03 4		·				-4146.71	680.05	N	263.20	E	728.40	1.23
4394.00							ļ	<u></u>			<del>!</del>	i
A395.00			i			*****	-				<del></del>	
4427.00	-			·····			<del></del>			·		
4458.00 15.06 31.79 4349.50 -4330.00 722.38 N 299.87 E 777.91 0.91   4490.00 15.56 31.04 4380.36 -4390.86 729.60 N 294.27 E 756.28 1.68   4522.00 16.00 30.29 4411.16 -4391.66 727.08 N 298.71 E 794.92 1.52   4553.00 15.06 30.17 4441.02 -4421.52 744.25 N 302.89 E 803.17 3.03   4555.00 14.50 30.67 4471.97 -4452.47 751.29 N 307.02 E 811.28 17.79   4617.00 14.88 35.04 4509.29 -4483.42 756.10 N 311.42 E 819.29 3.66   4649.00 14.72 37.16 4533.86 4514.36 764.71 N 316.24 E 827.28 1.76   4680.00 14.38 36.17 4563.86 4554.36 770.85 N 320.89 E 834.87 1.36   4712.00 13.66 36.29 4594.91 -4575.41 N 315.24 E 827.28 1.76   4744.00 12.88 35.79 4560.55 4606.55 783.16 N 329.80 E 849.64 2.56   4775.00 12.19 35.67 4656.31 -4658.31 783.62 N 333.73 E 866.22 2.23   4807.00 11.44 36.92 4887.63 -4688.13 789.90 N 337.61 E 866.22 2.23   4807.00 12.81 33.54 4749.28 4729.78 804.49 N 345.07 E 875.32 1.77   4902.00 12.88 35.04 4780.61 4781.18 1 802.26 N 337.70 E 856.22 2.23   4807.00 12.38 35.67 4868.31 -4868.13 789.90 N 337.61 E 866.22 2.48   4870.00 13.37 4814.93 482.84 472.78 804.49 N 345.07 E 875.32 1.77   4902.00 12.88 35.04 4780.51 4781.18 N 362.98 E 888.87 1.31   4965.00 13.50 33.17 4814.93 -4822.43 821.74 N 357.07 E 895.95 3.62   4983.00 12.88 35.04 4780.81 4781.18 802.26 N 380.97 E 895.95 3.62   4986.00 13.55 33.17 4814.93 -4822.43 821.74 N 357.07 E 895.95 3.62   4986.00 13.55 33.17 4814.93 -4822.43 821.74 N 357.07 E 895.95 3.62   5028.00 13.25 32.79 499.81 4976.31 852.34 N 375.61 E 931.43 2.31   5080.00 12.88 35.54 4984.38 4945.08 886.17 N 376.41 E 947.66 1.21   5080.00 12.88 25.79 508.81 4976.31 852.34 N 375.61 E 931.43 2.31   5080.00 12.88 25.79 508.81 4976.31 852.34 N 375.61 E 931.43 2.31   5080.00 12.88 25.79 508.81 4976.31 852.34 N 375.61 E 931.43 2.31   5080.00 12.88 25.79 508.81 508.62 86.01 N 383.71 E 950.10 1.01   5080.00 12.88 25.79 508.81 4976.31 852.34 N 375.61 E 931.43 2.31   5080.00 12.88 25.79 508.81 508.95 508.48 880.17 N 383.71 E 950.10 1.01   5080.00 10.88 26.95 508.64 552.14 7 7 500.80 N 383.30 E 971.83 1.66   5080.							<del> </del>			<del></del>	<del> </del>	
4490.00 15.56 31.04 4380.36 -4360.86 729.80 N 294.27 E 786.28 1.68 4522.00 18.00 30.29 4411.16 -4391.66 737.08 N 298.71 E 794.92 1.52 4553.00 15.06 30.17 4441.02 -4421.52 744.25 N 302.89 E 803.17 3.03 4585.00 14.50 30.67 4471.97 -4452.47 751.29 N 307.02 E 811.28 1.79 4617.00 14.88 35.04 4502.92 -4483.42 758.10 N 311.42 E 819.29 3.86 4684.00 14.72 37.16 4533.86 -4544.36 764.71 N 316.42 E 827.28 1.76 4680.00 14.38 36.17 4583.86 -4544.36 770.95 N 320.89 E 834.37 1.36 4712.00 13.69 36.29 4594.91 -4575.41 777.21 N 325.47 E 842.45 2.16 4744.00 12.88 35.79 4626.05 783.16 N 322.80 E 849.84 2.56 4775.00 12.19 35.67 4656.31 -4636.81 788.62 N 333.73 E 856.22 2.23 4807.00 11.44 39.92 4687.63 -4606.55 783.16 N 322.80 E 849.84 2.56 4870.00 12.31 33.54 4742.28 4729.78 804.49 N 345.07 E 875.32 1.77 4902.00 12.88 35.04 4780.51 -4761.01 810.26 N 349.00 E 882.18 2.05 4933.00 12.56 36.17 4810.75 -4791.25 815.81 N 352.98 E 888.87 1.31 4985.00 13.56 36.17 4810.75 -4791.25 815.81 N 352.98 E 888.87 1.31 5080.00 12.88 35.04 4780.51 -4761.01 810.26 N 349.00 E 882.18 2.05 5080.00 12.88 35.04 4898.51 -4805.57 827.86 N 360.97 E 903.12 1.06 5080.00 12.88 35.04 4983.50 4883.69 834.13 N 364.93 E 910.46 1.21 5080.00 12.88 35.79 4903.19 -4883.69 834.13 N 364.93 E 910.46 1.21 5080.00 12.88 35.59 4995.81 -4995.80 836.17 N 375.07 E 895.95 3.62 5080.00 12.88 35.64 4993.36 4883.69 834.13 N 364.93 E 910.46 1.21 5080.00 12.88 35.59 4996.58 4945.00 846.11 N 372.43 E 924.45 3.77 5123.00 12.88 28.29 4964.58 4945.00 846.11 N 372.43 E 924.45 3.77 5128.00 12.88 35.59 4995.81 -4995.81 840.19 N 366.93 E 917.60 1.27 5091.00 12.88 35.59 4995.81 -4995.80 840.19 N 366.93 E 917.60 1.27 5091.00 12.88 33.54 4993.36 836.80 836.11 N 376.41 E 937.42 2.84 5186.00 11.50 25.92 5056.14 500.64 856.11 N 373.41 E 944.08 1.61 5218.00 10.69 25.79 5088.89 5096.48 860.91 N 366.93 E 917.60 1.27 5250.00 10.31 26.42 510.09 508.89 5096.45 860.91 N 366.93 E 917.60 1.27 5250.00 10.31 26.42 510.09 508.55 5090.4 886.91 N 375.41 E 997.74 0.99 5559.00 6.25 44.77 5456.86 5382.78 914.47 N 44				······································			ļ	1		<u> </u>	<del> </del>	
4522.00 16.00 30.29 4411.16 -4391.66 737.08 N 296.71 E 794.92 1.52 4553.00 15.06 30.17 4441.02 -4421.52 744.25 N 302.89 E 803.17 3.03 4585.00 14.50 30.67 4471.97 -4452.47 751.29 N 307.02 E 811.28 1.79 4617.00 14.88 35.04 4502.92 -4483.42 758.10 N 311.42 E 819.29 3.66 469.00 14.72 37.16 4533.86 -4514.36 764.71 N 316.24 E 827.28 1.76 4698.00 14.73 36.61 4583.86 -4514.36 764.71 N 316.24 E 827.28 1.76 4598.00 14.38 36.17 4563.86 -4544.36 770.95 N 302.89 E 849.87 1.36 4712.00 13.69 36.29 4594.91 -4575.41 777.21 N 325.47 E 842.45 2.16 4744.00 12.88 35.79 4626.05 -4606.55 783.16 N 329.80 E 849.84 2.56 4775.00 12.19 35.67 4656.31 -4668.13 793.90 N 337.31 E 862.2 2.23 4807.00 11.44 38.92 4687.63 -4668.13 793.90 N 337.31 E 862.2 2.24 4807.00 12.88 35.04 4749.28 -4729.78 804.49 N 345.07 E 875.32 1.77 4902.00 12.88 35.04 4780.51 -4761.01 510.26 N 349.00 E 882.18 2.05 4933.00 12.56 36.17 4810.3 -4781.01 510.26 N 349.00 E 882.8 2.05 4998.00 13.50 33.17 4841.93 -4822.43 821.74 N 357.07 E 875.32 1.77 4905.00 13.56 31.79 4972.07 -4852.57 527.86 N 360.97 E 903.12 1.06 508.00 13.50 33.17 4841.93 -4822.43 821.74 N 357.07 E 895.95 3.62 4986.00 13.50 33.17 4841.93 -4822.43 821.74 N 357.07 E 895.95 3.62 508.00 13.50 33.17 4841.93 -4822.43 821.74 N 357.07 E 905.95 3.62 508.00 13.50 33.17 4841.93 -4822.43 821.74 N 357.07 E 905.95 3.62 508.00 13.58 33.54 4984.03 4984.03 884.11 N 364.93 E 901.44 1.21 5090.00 12.88 2.29 4984.58 -4945.08 834.13 N 364.93 E 901.44 1.21 5090.00 12.88 2.29 4985.00 33.17 4841.93 4852.67 627.86 N 360.97 E 903.12 1.06 5080.00 12.88 2.29 4985.80 4984.00 8 384.11 N 372.43 E 901.44 1.21 5090.00 12.88 2.29 4985.80 4984.00 8 384.11 N 372.43 E 904.45 3.77 512.20 12.38 2.79 505.55 500.64 858.11 N 372.43 E 904.45 3.77 512.20 12.38 2.79 505.55 500.00 83.81 11 N 364.93 E 901.44 1.21 500.00 12.88 2.29 4985.80 4984.00 8 384.11 N 372.43 E 904.45 3.77 500.00 12.88 2.29 502.81 4 500.664 858.11 N 372.43 E 904.00 1.21 500.00 12.88 2.29 502.81 4 500.664 858.11 N 372.43 E 904.00 1.21 500.00 1.28 500.00 12.88 2.29 500.00 12.88 80.00		·····				······································				3	<del>  </del>	
4553.00 15.06 30.17 4441.02 -4421.52 744.25 N 302.89 E 803.17 3.03 4585.00 14.50 30.67 4471.97 4465.47 751.29 N 307.02 E 811.28 1.79 84171.00 14.88 55.04 4502.92 -4483.42 758.10 N 311.42 E 819.29 3.66 4649.00 14.72 37.16 4533.86 -4514.36 764.71 N 316.24 E 827.28 1.76 4680.00 14.38 36.17 4563.86 -4514.36 764.71 N 316.24 E 827.28 1.76 4680.00 14.38 36.17 4563.86 -4514.36 770.95 N 320.89 E 834.87 1.36 4712.00 13.89 36.29 4594.91 4575.41 777.21 N 325.47 E 842.45 2.16 4744.00 12.88 35.79 4628.05 -4606.55 783.16 N 329.80 E 849.64 2.56 4775.00 12.19 35.67 4656.31 4636.81 793.90 N 337.61 E 862.62 2.23 4807.00 11.44 36.92 4687.63 -4668.13 793.90 N 337.61 E 862.62 2.24 4870.00 12.83 35.47 479.28 -4729.78 804.49 N 345.07 E 875.32 1.77 4902.00 12.85 35.04 4780.51 -4780.11 810.26 N 349.00 E 882.18 2.05 4983.00 12.55 35.17 4810.75 -4791.25 815.81 N 352.98 E 888.87 1.31 4965.00 13.55 33.17 4841.93 -4822.43 521.74 N 357.07 E 895.95 3.62 4986.00 13.25 32.79 4903.19 -4835.89 344.11 N 368.89 E 910.46 1.21 5060.00 12.88 33.54 4934.38 -4914.66 340.19 N 368.89 E 917.60 1.27 5060.00 12.88 33.54 4934.38 -4914.66 340.19 N 368.89 E 917.60 1.27 5060.00 12.88 28.29 4964.55 4945.08 386.11 N 378.41 E 931.43 2.31 5154.00 11.26 5.59 5.57 5.00 6.64 35.11 N 378.41 E 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.77 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 937.44 5 9							<del> </del>	<u> </u>		<del>}</del>	<del> </del>	······
4885.00						·					<u> </u>	
4617.00		4585.00	14.50	30.67							<del>}</del>	
468-0.00         14.72         37.16         4533.86         -4514.36         764.71         N         316.24         E         827.28         1.76           4880.00         14.38         36.17         4563.66         -4544.36         770.95         N         320.89         E         834.87         1.36           4712.00         13.69         36.29         4594.91         -4575.41         777.21         N         326.80         E         842.45         2.16           4774.00         12.88         35.79         4626.05         -4606.55         783.16         N         322.80         E         848.64         2.56           4775.00         12.19         35.67         4656.31         -4636.81         798.00         N         337.31         E         856.22         2.23           4807.00         11.44         36.92         4687.63         -4668.13         799.00         N         337.61         E         862.62         2.48           4870.00         12.28         35.04         4780.26         -4729.78         804.49         N         334.00         E         882.18         2.05           4982.00         12.88         35.04         4780.51         -4761.01		4617.00	14.88	35.04	4502.92	-4483.42		N			<del> </del>	
4880.00		4649.00	14.72	37.16	4533.86	-4514.36	764.71	N		1		
4744.00 12.88 35.79 4626.05 4606.55 783.16 N 329.80 E 849.64 2.56 4775.00 12.19 35.67 4656.31 -4636.81 788.62 N 333.73 E 856.22 2.23 4807.00 11.44 36.92 4687.63 -4668.13 793.90 N 337.61 E 862.62 2.48 4870.00 12.31 33.54 4749.28 4729.78 804.49 N 345.07 E 875.32 1.77 4902.00 12.88 35.04 4780.51 -4761.01 810.26 N 349.00 E 882.18 2.05 4933.00 12.56 36.17 4810.75 4791.25 815.81 N 352.98 E 888.87 1.31 4965.00 13.50 33.17 4841.93 -4822.43 821.74 N 357.07 E 895.95 3.62 4998.00 13.55 32.79 4903.19 -4883.69 834.13 N 364.93 E 910.46 1.21 5080.00 12.88 33.54 4934.36 -4914.86 840.19 N 368.89 E 917.60 1.27 5091.00 12.88 28.29 4964.58 4945.08 845.11 N 372.43 E 924.45 3.77 5123.00 12.38 25.79 4995.81 4996.03 12.35 25.79 4995.81 4976.31 852.34 N 375.61 E 931.43 2.31 5154.00 11.50 25.92 5025.14 -5006.64 858.11 N 378.41 E 937.84 2.84 5186.00 11.00 25.29 5057.52 -5038.02 863.74 N 381.11 E 944.08 1.61 521.00 10.69 25.79 5088.95 -5008.05 13.00 10.68 25.79 5088.95 -5008.05 13.00 10.69 25.79 5088.95 -5008.05 13.00 10.00 25.29 5057.52 -5038.02 863.74 N 381.11 E 944.08 1.61 5218.00 10.69 25.79 5088.95 -5008.45 869.17 N 388.67 E 955.93 1.24 5281.00 10.69 25.79 5088.95 -5008.45 869.17 N 388.67 E 955.93 1.24 5281.00 9.94 25.92 5150.93 -5131.43 879.30 N 388.67 E 955.93 1.24 5281.00 9.94 25.92 5150.93 -5131.43 879.30 N 388.67 E 965.37 1.23 5345.00 8.88 26.54 5216.07 -5194.57 886.69 N 393.30 E 971.83 1.66 5408.00 8.06 25.54 5276.38 -5256.88 897.02 N 393.30 E 971.83 1.66 5408.00 6.94 23.67 5402.28 -5382.79 914.94 N 400.96 E 989.79 0.93 5535.00 6.94 23.67 5402.28 -5382.79 914.94 N 404.12 E 997.74 0.99 5599.00 6.25 24.17 5465.86 -5446.36 918.99 N 407.10 E 1005.09 1.08 5590.00 6.94 23.67 5402.28 -5382.79 912.24 N 404.12 E 997.74 0.99 5599.00 6.25 24.17 5465.86 -5446.36 918.99 N 407.10 E 1005.09 1.08 5595.00 4.88 25.79 5591.23 -5571.73 930.28 N 412.37 E 1017.58 1.48 5725.00 4.88 25.79 5591.23 -5571.73 930.28 N 412.37 E 1017.58 1.48 5725.00 4.88 25.79 5591.23 -5571.73 930.28 N 412.37 E 1017.58 1.48 5725.00 4.88 25.79 5591.23 -5571.73 930.28 N 412.3		4680.00	14.38	36.17	4563.86	-4544.36	770.95	N		E	† · · · · · · · · · · · · · · · · · · ·	
4775.00		4712.00	13.69	36.29	4594.91	<i>-</i> 4575.41	777.21	N	325.47	E	842.45	2.16
A807.00			12.88	35.79		-4606.55	783.16	N	329.80	E	849.64	2.56
4870.00         12.31         33.54         4749.28         -4729.78         804.49         N         345.07         E         875.32         1.77           4902.00         12.88         35.04         4780.51         -4761.01         810.26         N         349.00         E         882.18         2.05           4933.00         12.56         36.17         4810.75         -4791.25         815.81         N         352.98         E         888.87         1.31           4965.00         13.56         31.79         4872.07         -4852.57         827.86         N         360.97         E         895.95         3.62           4996.00         13.56         31.79         4872.07         -4852.57         827.86         N         360.97         E         903.12         1.06           5028.00         13.25         32.79         4903.19         -4883.69         334.13         N         364.93         E         910.46         1.21           5090.00         12.88         28.29         4964.58         -4945.08         346.11         N         372.43         E         924.45         3.77           5123.00         12.38         25.79         5086.94         -4976.31					4656.31		788.62	N	333.73	E	856.22	2.23
4902.00         12.88         35.04         4780.51         -4761.01         810.26         N         349.00         E         882.18         2.05           4933.00         12.56         36.17         4810.75         -4791.25         815.81         N         352.98         E         888.87         1.31           4965.00         13.50         33.17         4841.93         -4822.43         821.74         N         357.07         E         895.95         3.62           4996.00         13.56         31.79         4872.07         -4852.57         827.86         N         360.97         E         903.12         1.06           5028.00         13.25         32.79         4903.19         -4883.69         834.13         N         364.93         E         910.46         1.21           5090.00         12.88         28.29         4964.58         -4945.08         846.11         N         372.43         E         924.45         3.77           5123.00         12.28         25.79         4995.81         -4976.31         852.34         N         375.61         E         931.43         2.31           5123.00         12.28         25.92         5026.14         -500.64								N			862.62	2.48
4933.00         12.56         36.17         4810.75         -4791.25         815.81         N         352.98         E         888.87         1.31           4965.00         13.50         33.17         4841.93         -4822.43         821.74         N         357.07         E         895.95         3.62           4996.00         13.56         31.79         4872.07         -4852.57         827.86         N         360.97         E         903.12         1.06           5028.00         13.25         32.79         4903.19         -4883.69         834.13         N         364.93         E         903.12         1.06           5096.00         12.88         33.54         4934.36         -4914.88         840.19         N         368.89         E         917.60         1.27           5091.00         12.88         28.29         4964.58         -4945.08         846.11         N         375.61         E         931.43         2.31           5123.00         12.38         25.79         4995.81         -4976.31         852.34         N         375.61         E         931.43         2.31           5154.00         11.50         25.92         5057.52         -5038.02							·				875.32	1.77
4965.00         13.50         33.17         4841.93         -4822.43         821.74         N         357.07         E         895.95         3.62           4996.00         13.56         31.79         4872.07         -4852.57         827.86         N         360.97         E         903.12         1.06           5028.00         13.25         32.79         4903.19         -4883.69         834.13         N         364.93         E         910.46         1.21           5080.00         12.88         33.54         4934.36         -4914.66         840.19         N         368.89         E         917.60         1.27           5091.00         12.88         28.29         4964.58         -4945.08         846.11         N         372.43         E         924.45         3.77           5123.00         12.38         25.79         4995.81         -4976.31         852.34         N         375.61         E         931.43         2.31           5154.00         11.50         25.92         5026.14         -5006.64         858.11         N         378.41         E         937.84         2.84           5186.00         10.69         25.79         5088.95         -5069.45	-							<del> </del>	<del></del>		<del></del>	
4996.00         13.56         31.79         4872.07         -4852.57         827.86         N         360.97         E         993.12         1.06           5028.00         13.25         32.79         4903.19         -4883.69         834.13         N         364.93         E         910.46         1.21           5080.00         12.88         33.54         4934.36         -4914.86         840.19         N         368.89         E         917.60         1.27           5091.00         12.88         28.29         4964.58         -4945.08         846.11         N         372.43         E         924.45         3.77           5123.00         12.38         25.79         4995.81         -4976.31         852.34         N         375.61         E         931.43         2.31           5154.00         11.50         25.92         5026.14         -5006.64         858.11         N         378.41         E         937.84         2.84           518.00         10.69         25.79         5088.95         -5069.45         869.17         N         383.71         E         950.10         1.01           5218.00         10.89         25.79         5088.95         -5069.45							<del></del>	<del>  </del>			}	
5028.00         13.25         32.79         4903.19         -4883.69         83.4.13         N         364.93         E         910.46         1.21           5080.00         12.88         33.54         4934.36         -4914.86         840.19         N         368.89         E         917.60         1.27           5091.00         12.88         28.29         4964.58         -4945.08         846.11         N         372.43         E         924.45         3.77           5123.00         12.38         25.79         4995.81         -4976.31         852.34         N         375.61         E         931.43         2.31           5154.00         11.50         25.92         5026.14         -5006.64         858.11         N         378.41         E         937.84         2.84           518.00         11.00         25.29         5057.52         -5038.02         863.71         N         381.11         E         944.08         1.61           5218.00         10.89         25.79         5088.95         -5069.45         869.17         N         383.71         E         950.10         1.01           5250.00         10.31         26.42         5120.42         -5100.92							~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<del></del>	····			
5060.00         12.88         33.54         4934.36         -4914.86         840.19         N         368.89         E         917.60         1.27           5091.00         12.88         28.29         4964.58         -4945.08         846.11         N         372.43         E         924.45         3.77           5123.00         12.38         25.79         4995.81         -4976.31         852.34         N         375.61         E         931.43         2.31           5154.00         11.50         25.92         5026.14         -5006.64         858.11         N         378.41         E         937.84         2.84           518.00         10.69         25.79         5088.95         -5069.45         869.17         N         383.71         E         950.10         1.01           5281.00         10.69         25.79         5088.95         -5069.45         869.17         N         383.71         E         950.10         1.01           5281.00         9.94         25.92         5150.93         -5131.43         879.30         N         388.67         E         961.37         1.23           5345.00         8.88         26.54         5214.07         -5194.57						···						
5091.00         12.88         28.29         4964.58         -4945.08         846.11         N         372.43         E         924.45         3.77           5123.00         12.38         25.79         4995.81         -4976.31         852.34         N         375.61         E         931.43         2.31           5154.00         11.50         25.92         5026.14         -5006.64         858.11         N         378.41         E         937.84         2.84           5186.00         11.00         25.29         5057.52         -5038.02         863.74         N         381.11         E         944.08         1.61           5218.00         10.69         25.79         5088.95         -5069.45         869.17         N         383.71         E         950.10         1.01           5250.00         10.31         26.42         5120.42         -5100.92         874.41         N         366.27         E         955.93         1.24           5281.00         9.94         25.92         5150.93         -5131.43         879.30         N         388.67         E         961.37         1.23           5345.00         8.88         26.54         5214.07         -5194.57						***************************************		<del>}</del>	• • • • • • • • • • • • • • • • • • • •			
5123.00         12.38         25.79         4995.81         -4976.31         852.34         N         375.61         E         931.43         2.31           5154.00         11.50         25.92         5026.14         -5006.64         858.11         N         378.41         E         937.84         2.84           5186.00         11.00         25.29         5057.52         -5038.02         863.74         N         381.11         E         944.08         1.61           5218.00         10.69         25.79         5088.95         -5069.45         869.17         N         383.71         E         950.10         1.01           5250.00         10.31         26.42         5120.42         -5100.92         874.41         N         386.27         E         955.93         1.24           5281.00         9.94         25.92         5150.93         -5131.43         879.30         N         388.67         E         961.37         1.23           5345.00         8.88         26.54         5214.07         -5194.57         888.69         N         393.30         E         971.83         1.66           5408.00         8.06         25.54         5276.38         -5256.88		5091.00		···	~~~			<del>[</del>				
5154.00         11.50         25.92         5026.14         -5006.64         858.11         N         378.41         E         937.84         2.84           5186.00         11.00         25.29         5057.52         -5038.02         863.74         N         381.11         E         944.08         1.61           5218.00         10.69         25.79         5088.95         -5069.45         869.17         N         383.71         E         950.10         1.01           5250.00         10.31         26.42         5120.42         -5100.92         874.41         N         386.27         E         955.93         1.24           5281.00         9.94         25.92         5150.93         -5131.43         879.30         N         388.67         E         961.37         1.23           5345.00         8.88         26.54         5214.07         -5194.57         888.69         N         393.30         E         971.83         1.66           5408.00         8.06         25.54         5276.38         -5256.88         897.02         N         397.37         E         981.10         1.32           5472.00         7.56         23.17         5339.79         -5320.29		5123.00	12.38			····		<del> </del>	•••••			
5186.00         11.00         25.29         5057.52         -5038.02         863.74         N         381.11         E         944.08         1.61           5218.00         10.69         25.79         5088.95         -5069.45         869.17         N         383.71         E         950.10         1.01           5250.00         10.31         26.42         5120.42         -5100.92         874.41         N         386.27         E         955.93         1.24           5281.00         9.94         25.92         5150.93         -5131.43         879.30         N         388.67         E         961.37         1.23           5345.00         8.88         26.54         5214.07         -5194.57         888.69         N         393.30         E         971.83         1.66           5408.00         8.06         25.54         5276.38         -5256.88         897.02         N         397.37         E         981.10         1.32           5472.00         7.56         23.17         5339.79         -5320.29         904.94         N         400.96         E         989.79         0.93           5535.00         6.94         23.67         5402.28         -5382.78		·	······································	25.92	5026.14	-5006.64		<del>}</del>				
5250.00         10.31         26.42         5120.42         -5100.92         874.41         N         386.27         E         955.93         1.24           5281.00         9.94         25.92         5150.93         -5131.43         879.30         N         388.67         E         961.37         1.23           5345.00         8.88         26.54         5214.07         -5194.57         888.69         N         393.30         E         971.83         1.66           5408.00         8.06         25.54         5276.38         -5256.88         897.02         N         397.37         E         981.10         1.32           5472.00         7.56         23.17         5339.79         -5320.29         904.94         N         400.96         E         989.79         0.93           5535.00         6.94         23.67         5402.28         -5382.78         912.24         N         404.12         E         997.74         0.99           5599.00         6.25         24.17         5465.86         -5446.36         918.96         N         407.10         E         1005.09         1.08           5662.00         5.81         25.04         5528.51         -5509.01					5057.52	-5038.02	863.74	N				
5281.00         9.94         25.92         5150.93         -5131.43         879.30         N         388.67         E         961.37         1.23           5345.00         8.88         26.54         5214.07         -5194.57         888.69         N         393.30         E         971.83         1.66           5408.00         8.06         25.54         5276.38         -5256.88         897.02         N         397.37         E         981.10         1.32           5472.00         7.56         23.17         5339.79         -5320.29         904.94         N         400.96         E         989.79         0.93           5535.00         6.94         23.67         5402.28         -5382.78         912.24         N         404.12         E         997.74         0.99           5599.00         6.25         24.17         5465.86         -5446.36         918.96         N         407.10         E         1005.09         1.08           5662.00         5.81         25.04         5528.51         -5509.01         924.97         N         409.86         E         1011.71         0.71           5788.00         4.19         26.29         5654.03         -5634.53							869.17	N	383.71	E	950.10	1.01
5345.00         8.88         26.54         5214.07         -5194.57         888.69         N         393.30         E         971.83         1.66           5408.00         8.06         25.54         5276.38         -5256.88         897.02         N         397.37         E         981.10         1.32           5472.00         7.56         23.17         5339.79         -5320.29         904.94         N         400.96         E         989.79         0.93           5535.00         6.94         23.67         5402.28         -5382.78         912.24         N         404.12         E         997.74         0.99           5599.00         6.25         24.17         5465.86         -5446.36         918.96         N         407.10         E         1005.09         1.08           5662.00         5.81         25.04         5528.51         -5509.01         924.97         N         409.86         E         1011.71         0.71           5725.00         4.88         25.79         5591.23         -5571.73         930.28         N         412.37         E         1017.58         1.48           5788.00         4.19         26.29         5654.03         -5634.53	-	<del></del>						ļ <u> </u>	***************************************		955.93	1.24
5408.00         8.06         25.54         5276.38         -5256.88         897.02         N         397.37         E         981.10         1.32           5472.00         7.56         23.17         5339.79         -5320.29         904.94         N         400.96         E         989.79         0.93           5535.00         6.94         23.67         5402.28         -5382.78         912.24         N         404.12         E         997.74         0.99           5599.00         6.25         24.17         5465.86         -5446.36         918.96         N         407.10         E         1005.09         1.08           5662.00         5.81         25.04         5528.51         -5509.01         924.97         N         409.86         E         1011.71         0.71           5725.00         4.88         25.79         5591.23         -5571.73         930.28         N         412.37         E         1017.58         1.48           5788.00         4.19         26.29         5654.03         -5634.53         934.75         N         414.56         E         1025.95         1.10           5914.00         3.88         27.17         5716.88         -5697.38								<del>                                     </del>				1.23
5472.00         7.56         23.17         5339.79         -5320.29         904.94         N         400.96         E         989.79         0.93           5535.00         6.94         23.67         5402.28         -5382.78         912.24         N         404.12         E         997.74         0.99           5599.00         6.25         24.17         5465.86         -5446.36         918.96         N         407.10         E         1005.09         1.08           5662.00         5.81         25.04         5528.51         -5509.01         924.97         N         409.86         E         1011.71         0.71           5725.00         4.88         25.79         5591.23         -5571.73         930.28         N         412.37         E         1017.58         1.48           5788.00         4.19         26.29         5654.03         -5634.53         934.75         N         414.56         E         1022.55         1.10           5851.00         3.88         27.17         5716.88         -5697.38         938.71         N         416.55         E         1026.98         0.50           5914.00         3.31         33.00         5779.75         -5760.25	<del></del>		<u></u>		<u>1</u>		·	<del>}</del>				1.66
5535.00         6.94         23.67         5402.28         -5382.78         912.24         N         404.12         E         997.74         0.99           5599.00         6.25         24.17         5465.86         -5446.36         918.96         N         407.10         E         1005.09         1.08           5662.00         5.81         25.04         5528.51         -5509.01         924.97         N         409.86         E         1011.71         0.71           5725.00         4.88         25.79         5591.23         -5571.73         930.28         N         412.37         E         1017.58         1.48           5788.00         4.19         26.29         5654.03         -5634.53         934.75         N         414.56         E         1022.55         1.10           5851.00         3.88         27.17         5716.88         -5697.38         938.71         N         416.55         E         1026.98         0.50           5914.00         3.31         33.00         5779.75         -5760.25         942.13         N         418.51         E         1030.90         1.07           5977.00         2.75         40.29         5842.66         -5823.16	<del></del>							<del></del>			····	
5599.00         6.25         24.17         5465.86         -5446.36         918.96         N         407.10         E         1005.09         1.08           5662.00         5.81         25.04         5528.51         -5509.01         924.97         N         409.86         E         1011.71         0.71           5725.00         4.88         25.79         5591.23         -5571.73         930.28         N         412.37         E         1017.58         1.48           5788.00         4.19         26.29         5654.03         -5634.53         934.75         N         414.56         E         1022.55         1.10           5851.00         3.88         27.17         5716.88         -5697.38         938.71         N         416.55         E         1026.98         0.50           5914.00         3.31         33.00         5779.75         -5760.25         942.13         N         418.51         E         1030.90         1.07           5977.00         2.75         40.29         5842.66         -5823.16         944.81         N         420.48         E         1034.15         1.08	<del>                                     </del>						····	ł				
5662.00         5.81         25.04         5528.51         -5509.01         924.97         N         409.86         E         1011.71         0.71           5725.00         4.88         25.79         5591.23         -5571.73         930.28         N         412.37         E         1017.58         1.48           5788.00         4.19         26.29         5654.03         -5634.53         934.75         N         414.56         E         1022.55         1.10           5851.00         3.88         27.17         5716.88         -5697.38         938.71         N         416.55         E         1026.98         0.50           5914.00         3.31         33.00         5779.75         -5760.25         942.13         N         418.51         E         1030.90         1.07           5977.00         2.75         40.29         5842.66         -5823.16         944.81         N         420.48         E         1034.15         1.08	1							<del> </del>				***************************************
5725.00         4.88         25.79         5591.23         -5571.73         930.28         N         412.37         E         1017.58         1.48           5788.00         4.19         26.29         5654.03         -5634.53         934.75         N         414.56         E         1022.55         1.10           5851.00         3.88         27.17         5716.88         -5697.38         938.71         N         416.55         E         1026.98         0.50           5914.00         3.31         33.00         5779.75         -5760.25         942.13         N         418.51         E         1030.90         1.07           5977.00         2.75         40.29         5842.66         -5823.16         944.81         N         420.48         E         1034.15         1.08	<u> </u>		<del></del>				·	<del></del>				
5788.00         4.19         26.29         5654.03         -5634.53         934.75         N         414.56         E         1022.55         1.10           5851.00         3.88         27.17         5716.88         -5697.38         938.71         N         416.55         E         1026.98         0.50           5914.00         3.31         33.00         5779.75         -5760.25         942.13         N         418.51         E         1030.90         1.07           5977.00         2.75         40.29         5842.66         -5823.16         944.81         N         420.48         E         1034.15         1.08	<del></del>	<del>!</del>						<del> </del>			·····	
5851.00         3.88         27.17         5716.88         -5697.38         938.71         N         416.55         E         1026.98         0.50           5914.00         3.31         33.00         5779.75         -5760.25         942.13         N         418.51         E         1030.90         1.07           5977.00         2.75         40.29         5842.66         -5823.16         944.81         N         420.48         E         1034.15         1.08		5788.00						ļ				
5914.00     3.31     33.00     5779.75     -5760.25     942.13     N     418.51     E     1030.90     1.07       5977.00     2.75     40.29     5842.66     -5823.16     944.81     N     420.48     E     1034.15     1.08	<del></del>		3.88	27.17				<del></del>				
5977.00 2.75 40.29 5842.66 -5823.16 944.81 N 420.48 E 1034.15 1.08				33.00								<del></del>
2040.00		······································			5842.66	-5823.16	944.81	N				
6040.00 2.56 42.04 5905.60 -5886.10 947.01 N 422.40 E 1036.94 0.33		6040.00	2.56	42.04	5905.60	-5886.10	947.01	N	422.40	E		

Location Information

**Business Unit** 

Operations

Project Uinta Phase/Area Black Tail Ridge

Well Name #7-7-46 BTR Surface Location NWSE-7-4S-6W-W30M

Main Hole:

extrap.	Depth MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Sub Sea (ft)	Northings (ft)	N/S	Eastings (ft)	E/W	Vertical Section (ft)	Dog Le
<u>(16.34.448.4</u>	6104.00	2.38	41.54	5969.54	-5950.04	949.06	N	424.24	E	1039.56	0.28
	6167.00	2.00	45.79	6032,49	-6012.99	950.81	N	425.89	E	1039.30	0.26
	6231.00	1.38	50,67	6096,46	-6076.96	952.08	N	427.29	E	1043.55	0.99
	6294.00	0.94	62.92	6159.45	-6139.95	952.79	N	428.34	E	1044.63	0.80
	6357.00	0.71	102.76	6222.44	-6202.94	952.94	N	429.18	E	1045.10	0.96
	6420.00	0.57	121.24	6285.44	-6265.94	952.69	N	429.83	E	1045.14	0.39
	6482.00	0.50	138.92	6347.43	-6327.93	952.33	N	430.27	E	1044.98	0.29
	6546.00	0.75	143.79	6411.43	-6391.93	951.78	N	430.70	Ε	1044.66	0.40
	6610.00	0.88	153.29	6475.42	-6455.92	951.00	N	431_17	E	1044.13	0.29
	6673.00	1.25	160.29	6538.41	-6518.91	949.93	N	431.62	E	1043.33	0.62
	6737.00	1.69	171.29	6602.39	-6582.89	948.34	N	431,99	E	1042.03	0.81
	6800.00	1.94	172.91	6665.36	-6645.86	946.36	N	432.27	E	1040.33	0.40
	6864.00	0.87	198.18	6729.34	-6709.84	944.82	N	432.25	E	1038.92	1.89
	6927.00	1.13	193.42	6792.33	-6772.83	943.76	N	431.96	E	1037.83	0.43
	6991.00	1.44	191.79	6856.31	-6836.81	942.36	N	431.65	E	1036.42	0.49
	7105.00	1.56	180.42	6970.27	-6950.77	939.41	N	431.34	E	1033.60	0.28
	7117.00	1.75	179.16	6982.27	-6962.77	939.06	N	431.34	E	1033.28	1.62
	7212.00	2.06	175.79	7077.21	-7057.71	935.91	N	431.49	E	1030.46	0.35
	7275.00	1.69	170.04	7140.18	-7120.68	933.86	N	431.73	E	1028.68	0.66
	7339.00	2.00	165.54	7204.15	-7184.65	931.85	N	432.17	Ε	1027.02	0.53
	7433.00	1.88	180.29	7298.09	-7278.59	928.72	N	432.58	E	1024.32	0.54
	7528.00	2.31	179.72	7393.03	-7373.53	925.25	N	432.58	E	1021.15	0.45
	7623.00	2.63	184.29	7487.94	-7468.44	921.16	N	432.42	E	1017.35	0.40
	7719.00	3.06	184.79	7583.82	-7564.32	916.41	N	432.05	E	1012.85	0.45
	7782.00	2.75	193.91	7646.74	-7627.24	913.27	N	431.54	E	1009.77	0.88
	7876.00	2.75	195.91	7740.63	-7721.13	908.91	N	430.38	E	1005.32	0.10
	7971.00	2.75	197.91	7835.52	-7816.02	904.55	N	429.06	E	1000.79	0.10
	8066.00	2.88	194.92	7930.41	-7910.91	900.08	N	427.74	E	996.17	0.21
	8162.00	2.88	195.29	8026.29	-8006.79	895.42	N	426.48	E	991.40	0.02
	8257.00	3.06	195.42	8121.16	-8101.66	890.68	N	425.18	E	986.53	0.19
	8351.00	3.31	190.04	8215.01	-8195.51	885.58	N	424.04	E	981.41	0.41
	8446.00	3.44	189.54	8309.85	-8290.35	880.07	N.	423.09	E	975.99	0.14
	8509.00	3.44	193.04	8372.73	-8353.23	876.37	N	422.35	E	972.30	0.33
	8731.00	3.44	195.00	8594.33	-8574.83	863.45	N	419.12	E	959.18	0.05

# DIVISION OF OIL, GAS AND MINING Wildcat Well Determination STATEMENT OF BASIS

Applicant: Bill Barrett Corporation

Location: NWSE Sec. 7 T4S, R6W USM, Duchesne County, Utah

**WELL NAME**: 7-7-46 BTR **API #**: 43-013-33565

## **FINDINGS**

1. The subject well produces from the Wasatch formation.

- 2. The subject well was > 1 mile from any known production in the Wasatch formation at the time of first commercial production on November 2, 2007. See Attachment A for summary of current producing wells within the one (1) mile area of review.
- 3. The 14-7-46 BTR well (API # 43-013-33806) is the only other permitted well within a mile of the subject well. It is a valid APD, but has not been spud yet.
- 4. This well is subject to the order in Cause No. 139-17 that was approved by the Board of Oil, Gas and Mining on September 27, 1978, amended by Cause No. 139-42 that was approved by the Board of Oil, Gas and Mining on April 12, 1985 and further amended by Cause No. 139-77 that was approved by the Board of Oil, Gas and Mining on June 18, 2007 ("Orders"). The Orders define Sections 7 as a common source of supply (pool see Utah Code Ann. 40-6-2(18)) for production from the Lower Green River and Wasatch formations.
- 5. Evidence presented in the Orders showed that there was enough geological and reservoir data to substantiate the existence of oil and gas in the Lower Green River and Wasatch Formations in this area. Several wells drilled in the surrounding area were submitted as evidence of this fact in these hearings.
- 6. The Wildcat Tax Credit application was received almost 6 months after completion of the 7-7-46 BTR well. Future submittals should be filed timely (see submittal requirements in R649-3-35-1).

#### **CONCLUSIONS**

Based on the findings above the Division has determined the 7-7-46 BTR well was drilled into a known producing area for the Lower Green River and Wasatch Formations. This well was drilled within a spaced drilling unit. The testimony presented in Cause No's. 139-17, 139-42 and 139-77 showed that the Lower Green River and Wasatch Formations were known to contain hydrocarbons in paying quantities in this area, insofar as much as the Board agreed and set up drilling and spacing units according to that evidence. No information was provided in the testimony or in the application that supported the subject well being drilled in a separate pool.

Therefore, the Division finds that this well does not qualify for the severance tax exemption under Section 59-5-102(2)(d) for wildcat wells. This determination was made in accordance with Oil and Gas General Conservation Rule R649-3-35 and the definition of a wildcat well in R649-1-1. If the operator disagrees with this determination, the decision may be appealed to the Board of Oil Gas and Mining.

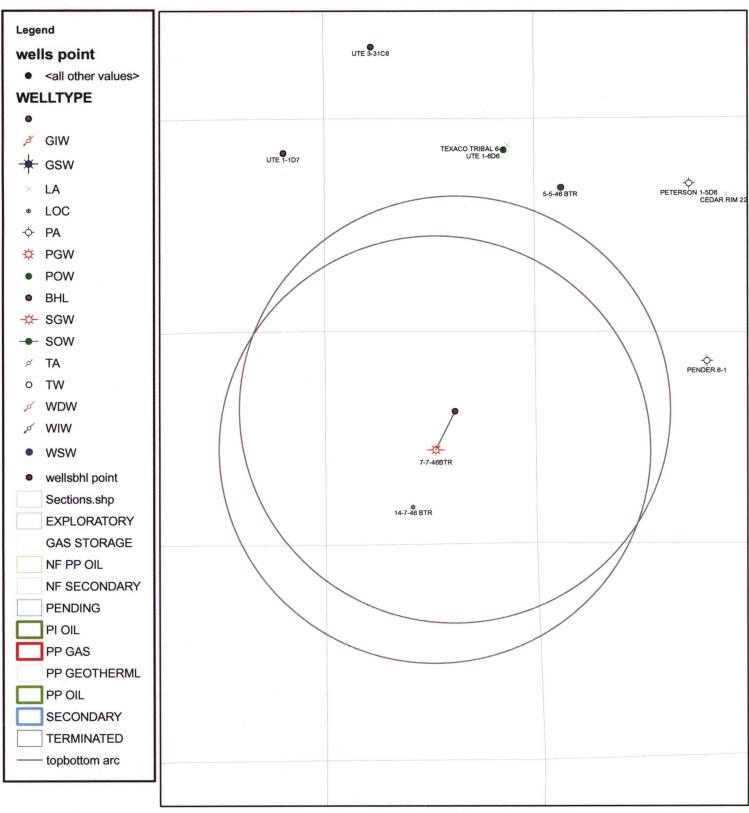
Reviewer(s): Dustin K. Doucet Ducet Date: 6/10/2008

CC: Utah State Tax Commission

ATTN: Ken Petersen

							AT	TACH	MENT A					
							1 N	lile Area	Of Review					<del></del>
API	Well Name	Well Status	qtr_qtr	Section	Township	Range	cum_oil	cum_gas	field_type_flag	Dx from Well (ft)	Rotary Spud	Date TD Reached	Date First Produced	Producing Formation
4301333565	7-7-46BTR	Р	NWSE	7	0408	060W	4702	4965	D	0	9/7/2007	9/28/2007	11/2/2007	Wasatch
														"Marrico de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta del la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta del la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la compacta de la comp

# BillBarret Corporation Wildcat Area of Review #7-7-46 BTR





## STATE OF UTAH

DIVISION OF OIL, GAS AND MINING	E LEACE DECIGNATION AND DEDING NUMBER
DIVISION OF OIL, GAS AND WINNING	5. LEASE DESIGNATION AND SERIAL NUMBER: BIA-EDA-20G0005608
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	7. UNIT OF CA AGREEMENT NAME: N/A
1. TYPE OF WELL OIL WELL GAS WELL OTHER	8. WELL NAME and NUMBER:  # 7-7-46 BTR
2. NAME OF OPERATOR: Bill Barrett Corporation	9. API NUMBER: 4301333565
3. ADDRESS OF OPERATOR: 1099 18th Street, Suite 2300 CITY Denver STATE CO ZIP 80202 (303) 312-8546	10. FIELD AND POOL, OR WILDCAT: Altamont
4. LOCATION OF WELL	Altamont
FOOTAGES AT SURFACE: 2323' FSL x 2465' FEL	COUNTY: Duchesne
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSE 7 T4S R6W	STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REF	PORT, OR OTHER DATA
TYPE OF SUBMISSION    ACIDIZE	umes, etc. ease find a map showing a one-mile of the # 7-7-46 BTR. The known D') and Uteland Butte (5375' - 5718'), geologic structure and BBC has no under Section 59-5-102(2)(d)); the outlining the well history of BBC
	RECEIVED MAY 0 2 2008 FOIL, GAS & MINING
SIGNATURE HOLD HOLDER 4/30/2008	
This space for State use only)  REQUEST DENIED  Utah Division of  Oil, Gas and Mining	

(5/2000)



- SHUT IN WELLS
- **€** TEMPORARILY ABANDONED

## Uintah Engineering & Land Surveying 85 South 200 East Vernal, Utah 84078 (435) 789-1017 * FAX (435) 789-1813

SECTION 7, T4S, R6W, U.S.B.&M 2323' FSL 2465' FEL

7	0	1	0	Ü	F.	A	*	3.5		<u> </u>	(		0.7	0.7
				3.	À	Į.					210	NTH	DAY	YEAR
SC.	ALF	: 1	17 =	200	0'	DF	AV	VNI	3Y:	L.K		REV	ISED:	00-00-00

#### Memorandum

To: Utah Division of Oil, Gas and Mining

From: Bill Barrett Corporation

Kurt Reinecke, SVP Exploration <u>kreinecke@billbarrettcorp.com</u>

303-312-8113

Re: Tax exemption under Section 59-5-102(2)(d)

Date: April 28, 2008

In order to assist in the determination of well classifications for six recently drilled oil wells west of Duchesne, Utah, Bill Barrett Corporation offers the following information.

The overall context for 5 of these 6 wells is that they were drilled as part of a continuous drilling program to determine if results from historically poor, and sub-commercial, producing wells truly did defined the edge of Cedar Rim field. Additionally, since these wells were drilled as part of a continuous program, Bill Barrett Corporation was unable to evaluate the completion results on some of its wells prior to drilling the successive location, thereby further increasing the commercial risk. Results from these 6 high risk wells has encouraged us that we can indeed extend this field beyond its present limits, however we have paid the price for this exploration work via several apparently non-commercial wells.

#### 1. 7-7-46 BTR

- a. Classification: Wildcat
- b. Location (2323 FSL x 2465 FEL sec. 7 T4S, R6W) This well was spud on 7/14/2007. When drilled, no other well was located within 1 mile of its bottom hole location (2141 FNL x 2043 FEL), see attached forms, cross section and associated map. The 7-7-46 BTR is completed in generally the same Green River Wasatch interval as wells to the north, but we also have been completing deeper zones. This well was a significant southwesterly step out from previous uneconomic drilling that had defined the edge of Cedar Rim field for 20 years. This well supports the idea that the field is a fractured stratigraphic oil trap and not a known geologic structure.

#### 2. 12-36-36 BTR

- a. Classification: Development [no forms submitted]
- b. Location (1837 FSL x 704 FWL sec. 36 T3S R6W) This well was spud 10/8/2007, and is considered development because current production exists within 1 mile of the location (see attached map on cross section). However because the well was a step out away from known production, and also drilled to test deeper potential horizons, it is considered a high risk development well.

#### 3. 7-28-46 DLB

- a. Classification: Wildcat
- b. Location (2028 FNL x 543 FEL sec. 28 T4S R6W) This well was spud on 11/12/2007. When drilled, no other producing well was located within 1 mile of its bottom hole location (1963 FNL x 1786 FEL), see attached forms and Exhibit A. Four wells had been drilled within 1 mile during the 1978-79 timeframe. Results from these wells showed either no production to minor sub-economic production. The 7-28-46 DLB is completed in generally the same Green River Wasatch interval as wells to the north, but we also have been completing deeper zones (see cross section). This well was a significant southwesterly step out from previous uneconomic drilling that had defined the edge of Cedar Rim field for 20 years. This well supports the idea that the field is a fractured stratigraphic oil trap and not a known geologic structure.

#### 4. 7-21-46 DLB

- a. Classification: Wildcat
- b. Location (1795 FSL x 1718 FEL sec. 21 T4S R6W) This well was spud 12/2/2007 directly after the 7-28-46 BTR, only the typical non-descript openhole logs were available, no completion work had yet been performed on 7-28-46 DLB. Two historical wells had been drilled within 1 mile during the 1978-79 timeframe. Results from these wells showed either no production to minor sub-economic production. The 7-21-46 DLB is completed in generally the same Green River Wasatch interval as wells to the north, but we also have been completing deeper zones (see cross section). This well was a significant southwesterly step out from previous uneconomic drilling that had defined the edge of Cedar Rim field for 20 years. This well supports the idea that the field is a fractured stratigraphic oil trap and not a known geologic structure.

#### 5. **5-5-46 BTR**

- a. Classification: Wildcat
- b. Location (1718 FNL x 640 FWL sec. 5 T4S R6W) This well was spud 12/7/2007. When this well was drilled two wells had been drilled within the 1 mile radius. Both these wells, drilled in 1985 and 1996, yielded subcommercial quantities of production supporting the conclusion that these wells helped defined the southwestern edge of Cedar Rim field. The 5-5-46 BTR was a high risk well that challenged the field edge concept and was completed in a similar Green River Wasatch interval as the two historical wells, but used hydraulic fracturing to stimulate the wellbore. This well supports the idea that the field is a fractured stratigraphic oil trap and not a known geologic structure.

#### 6. 7-20-46 DLB

- a. Classification: Wildcat
- b. Location (2250 FNL x 2500 FWL sec 20 T4S R6W) This well was spud on 12/28/2007. When this well was drilled 1 historical well existed within 1 mile. This well, drilled in 1979, produced sub-commercial amounts of oil and gas. The newly drilled 7-21-46 DLB also existed within the 1 mile radius but this well had not been completed at the time drilling commenced on the 7-20-46 DLB. The 7-20-46 DLB is completed in generally the same Green River Wasatch interval as wells to the north, but we also have been completing deeper zones (see cross section). This well was a significant southwesterly step out from previous uneconomic drilling that had defined the edge of Cedar Rim field for 20 years. This well supports the idea that the field is a fractured stratigraphic oil trap and not a known geologic structure.

### **Explanation of Cross Section**

- This display shows both newly drilled wells by BBC, as well as historical wells. Note how BBC well are generally drilled deeper than historical wells.
- Gamma ray and resistivity curves are presented.
- Log headers show well name and surface locations.
- Formation correlations used by Bill Barrett Corporation are indicated.
- Red markings to the left of the depth column on each well indicate where the well is completed.
- If production existed then the cumulative amount in BOE is shown along with the decline curve graph below the logs.
- The current operator is also shown below the logs.

The map in the lower right hand corner shows the general north to south cross section line.

- One mile radius circles, centered on the bottom hole location, are shown for each well that Bill Barrett Corporation has drilled.
- Posted at the well symbol is the well number on top and the cumulative production in MMBOE below the well symbol.
- The color highlight at each symbol shows a color representation of the wells cumulative MMBOE.



## BLACKTAIL RIDGE AREA SPACING ORDERS

Date: April 28, 2008 To: Doug Gundry-White

I. Second Amended Spacing Order - April 23, 2008 Hearing

<u>Cause</u> <u>Summary of Order – Spacing Rules</u> 139-83 Wells located anywhere in section, 660' from

Wells located anywhere in section, 660' from the section

lines and no closer than 1,320' from any well producing

from the same formation.

Lands Township 3 South, Range 5 West, USM

Sections 1 to 36

Township 4 South, Range 5 West, USM

Sections 1 to 6

Township 3 South, Range 6 West, USM

Sections 1 to 12

140-6

any direction.

Township 3 South, Range 7 West, USM

Sections 1 to 12, 14 to 23, 26 to 29, and 32 to 35

II. Spacing Rules Previously in Effect in Blacktail Ridge Area Lower Green River to Base of the Wasatch (640 acre units)

<u>Cause</u>	Summary of Order - Spacing Rules
139-77	Wells located anywhere in section, 660' from the section lines and no closer than 1,320' from any well producing from the same formation.
139-42	Two wells allowed in each section, located at least 1,320' from any existing well and 660" from unit boundary (section line).
139-8	Wells to be located in the center of the NE¼ with tolerance of 660' in any direction (also applies to #139-17 lands).

Wells to be located in the SW¼NE¼ with a tolerance of 660' in

Statewide Wells to be located in center of 40 acre qtr-qtr, with tolerance of Rules 200' in any direction (Utah Administrative Rule R649-3-2)

## III. Prior Spacing Orders and Lands

## 1. BBC Spacing Order #139-77 (June 18, 2007)

All wells shall be drilled 660' from the boundaries of the unit (section) and no closer than 1,320' from a well producing from the same formations without an exception location. No more than 2 wells producing from the Lower Green River - Wasatch formations without Board authorization.

3S	6W	15, 16, 17, 18, 19, 20, 21, 22 and 27, 28, 29, 30, 31, 32, 33, 34	All	Amends #139-8 for Sections 13, 14, 23,24, 25, 26, 35, 36; amends #139-42 for all lands; amends 140-6 for 13, 24, 25, 36
48	6W	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18	All	Amends #139-17 for Sections 3 to 18; amends #139-42 for all lands
38	7W	13, 24, 25 and 36	All	Amends #140-15 for 13 and 25; amends #139-42 and 140-6 for all lands

## 2. Spacing Order 139-42

(April 1, 1985)

Effective 4-12-1985, prior orders in Cause Nos. 139-3; 139-4; 139-5; 139-8; 139-17 (Altamont); 131-11; 131-14; 131-24; 131-27; 131-32; 131-33; 131-34; 131-45; 131-55 (Bluebell); 140-6; and 140-7 (Cedar Rim-Sink Draw) are modified as of 4-12-1985 to allow for <u>Additional Wells</u> to be drilled in each section. The lower Green River/Wasatch formation is a pool as defined in Utah Code Ann. § 40-6-2(9) (1953, as amended).

Two wells may be drilled in each section based on geologic and engineering data to justify the additional well for recovery when economically feasible. Any additional well must be located at least 1,320' from the existing well on the unit and not closer than 660' from the boundary of the unit; and no two wells may be drilled in the same quarter section. All prior orders not consistent with this order are vacated (but existing orders that specify location of the initial wells in each section are not vacated).

3S	5W	1 to 36	All	Not amended by #139-77 To be amended by April 2008 BBC Application for Sections 1 to 36
3S	6W	1 to 36	All	Amended by #139-77 for Sections 13 to 36 To be amended by April 2008 BBC Application for Sections 1 to 12
3\$	7W	1 to 36	All	Amended by #139-77 for Sections 13, 24, 25 and 36 To be amended by April 2008 BBC Application for Sections 1 to 12; 14 to 23; 26, 27, 28, 29, 32, 33, 34 and 35

## 3. Spacing Order 139-8

(September 20, 1972)

640 acre drilling units established from top of the Lower Green River to base of the Green River-Wasatch formation.

Amends prior Orders entered in Causes 139-3; 139-4; and 139-5.

Spaced interval is now defined as from the top of the Lower Green River formation (TGR3 marker) to the base of the Green River-Wasatch formation (top of Cretaceous) by reference to the stratigraphic equivalent referenced against the Shell - Ute 1-18B5 and Brotherson 1-11B4 wells.

Permitted wells shall be located in the center of the NE¼ of the section comprising the drilling unit, with a tolerance of 660' in any direction, except for exceptions granted without a hearing for topography.

All prior orders not consistent with this order are hereby vacated.

48	5W	1, 2, 3, 4, 5, 6	All	
45	6W	1 and 2		Amended by BBC Spacing Order #139-77

## 4. Spacing Order 140-6

(August 11, 1971)

Makes permanent the one year spacing order in Cause No. 140-1 (8-19-1970), which set section drilling units for Lower Green River and Wasatch Formations on the lands in Section 3S-6W and 3S-7W (described below), and sets tolerance for each well as 220' from center of the SW¼NE¼ of each section on 640 acre spacing for Green River and Wasatch.

The Board made findings that there is communication between wells in adjacent sections and that one well will effectively drain the oil in one section.

By Order entered 2-17-1971 in Cause No. 140-4, Order 140-1 was extended and enlarged to include lands in 2S-7W (31 to 35); 2S-8W (31 to 36); 3S-7W (2 to 7 and 18, 19, 30 and 31); and 3S-8W (1 to 36).

The Order is now made permanent that drilling units shall be located in the center of the SW4NE4 of each section with a tolerance of 660' in any direction.

38	6W	7, 8, 9, 10	All	Not Amended by #139-77 To be amended by April 2008 BBC Application for Sections 7, 8, 9 and 10
3\$	7W	1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 32, 33, 34, 35, 36		Amended by #139-77 for Sections 13, 24, 25 and 36 To be amended by April 2008 BBC Application for Sections 1 to 12; 14 to 23; 26, 27, 28, 29, 32, 33, 34 and 35

## 5. Statewide Rules - Lands not Subject to Spacing Orders

45	5W	7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18	All	State Location (Siting) Rules.
48	7W	1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 13, 14, 15, 16		State Location (Siting) Rules.

## IV. Notice Requirements - Spacing Area and Adjacent Lands

Under Order #139-77, working interest owners and operators of <u>adjacent</u> drilling units impacted by modification of the 660' tolerance window (under Order #140-6) were also notified, including Sections 7 to 11 of T3S, R6W and Section 12 of T3S, R7W.

By the same logic, the <u>adjacent</u> working interest owners and operators of the lands subject to Order #140-6 (which includes the lands from #140-1 and #140-4) should also be notified, including:

T3S, R7W Sections 30 and 31
T3S, R8W Sections 1, 12, 13, 24, 25 and 36
T2S, R7W Sections 31 to 36

T2S, R8W Section 36

Form 3160-4 (August 2007)

#### UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED OMB NO. 1004-0137 Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

	V	VELL	COM	PLET	ION OR	RECOMPL	ETIO!	N REPORT	AND L	OG				erial No.	
		7 71										BIA	\-EDA	-20G00056	808
b. Type of		n: [Z]	Oil Wel New W	eli E	Gas Well Work Ove	Dry Decpen	Other	r Back 🏻 Di	ff. Resvr.,			Ute	India	n, Allottee or ' n Tribe	
		1	Other: _									7. U N/A	init or	CA Agreemer	nt Name and No.
2. Name of Bill Barret	t Corpora									***************************************		8. L		ame and Well	l No.
3. Address	Denver, CC	20208						3a. Phone (303) 31		de area co	te)	9. /	AFI We 013-33	ll No.	
4. Location	of Well (i	Report l	ocation (	clearly o	md in accor	dance with Fed	leral regi	árements)*	····					nd Pool or Ex	ploratory
At surfa	2323' F	SL x 2	2465' FI	EL Tions								Alta	emont		
	ce NW/4,	SE/4,	Sec. 7,			25' FNL x 207	70' FEL					11.	Sec., T Survey	, R., M., on E or Area Sec.	Block and 7. T4S, R6W
	od. interval	•		1 5"KH .	- 00 (0) EE								•	or Parish	13. State
At total d		4, NE/			( 2043' FE						·····			County	UT
07/14/200	)7			o. Date 09/28/2	T.D. Reach	ed		16. Date Com		/01/2007 ady to Proc	4		Elevation 5' GL	ons (DF, RKI	B, RT, GL)*
18. Total D		0 873 /D 859	31'		19. Pl	ug Back T.D.:				0. Depth F		g Set:	MD		
21. Type E	lectric & Or	ther Med	chanical I	ogs Ru	1 (Submit co	py of each)	TVD		22	2. Was wo	il cored?	ZN	TVD	Yes (Submit	anahusia)
Baker Hu	ghes Tripl	e Com	ibo						1	Was DS	T run?	ZIN	о <u>Г</u>	Yes (Submit	report)
23. Casing	and Liner	Record	(Report	all strit	igs set in we	-(t)			L	Directio	mal Survey		o [7	Yes (Submit	copy)
Hole Size	Size/G	1	Wt. (#/f	1	Top (MD)	Bottom (M	ID) S	Stage Cementer Depth		Sks. & f Cement	Slum (BE		Cen	nent Top*	Amount Pulled
20"	16"Con		1/4 " W	all Su	rface	40'			Grout C	mt.			0'		
12 1/4"	9 5/8" -	J-55	36 lbs.	Su	rface	912'		***************************************	120 sxs	- HLC	40 bbls		O,		
O OIAII	C 4 (0) C	110	.2 77 ()					··	240 sxs	-AG300	49 bbls				
8 3/4"	5 1/2" F	7130	17 lbs.		·····	8720'			170 sxs	······································	116 bbl	s.	800'		
			•						1000 sx	s- 50/50	265 bbl	s.			
24. Tubing	Record	J.			······································				<u> </u>						
Size	Depth	Set (MI	D) Pa	cker De	pth (MD)	Size	Do	opth Sct (MD)	Packer De	pth (MD)	Siz	e I	Dep	th Set (MD)	Packer Depth (MD)
2 7/8" 25. Produci	6400'	•										ļ			
	Formatio				Тор	Bottom	26.	Perforation : Perforated In			Size	No. F	loles	T	Perf. Status
A) North F				7807'		8054'	7,8	07' - 8,054'	***************************************	0.43		21		Open	r CO. Status
B) Wasato	h			5762'		7640'	7,5	56' - 7,640'		0.43		30	***************************************	Open	
C) Utelano D)	d Butte			5375'		5718'	6,9	56' - 7,338'		0.43	1	18		Open	
							6,4	07' - 6,667'		0.43	1	30		Open	
27. Acid, Fi	Depth Inter		Cement	Squeeze	e, etc.				Imount and	Tuna of S	fatarial	······································			
7,807' - 8,6	054'			70% C	O2 foam f	rac; 894 bbls	LGC6	189 bbls. of				- 40 sat			
7,556' - 7,		******							***************************************						
6,956' - 7,				1528 t	bls, LGC6	; 165 bbls. of	slickwa	eter, 110,588	lbs. 20 - 4	40 sand.					
6,407' - 6,6 8. Producti		-1 A													
		Hours	Tesi		Oil	Gas	Water	Oil Grav	itv	Gas	Bend	iction Mi	21. o. d		
roduced 11/2/07	12/1/07	Tested	Pro	duction	BBL	МСР	BBL	Corr. AF		Gravity	Flov		cuica		
	Tbg. Press.	24 Csa	24 1	<u> </u>	282 Oil	180 Gas	84	49	·	N/A		· · · · · · · · · · · · · · · · · · ·			
Size		Press.	Rate	;	BBL	MCF	Water BBL	Gas/Oil Ratio		Well State SI - Wor					
20/64	150	1000	*****		282	180	84	49							
8a. Produc	~~~~~~~				···					J					
Date First Produced		Hours Tested	,	luction	Oil BBL		Water BBL	Oil Grav Corr. AP	-	Gas Gravity	Produ	otion Mo	thod		
ize	Tbg. Press. Flwg. Sl	Csg. Press.	24 h Rate		Oil BBL		Water BBL	Gas/Oil Ratio		Well Statu	s				

^{*(}See instructions and spaces for additional data on page 2)

28b. Produ	iction - Inte	rval C					· · · · · · · · · · · · · · · · · · ·	***************************************	······································	
		Hours Tested	rest Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method	,
Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	A	
28c. Produ	ction - Inte	rval D								
Date First Produced		Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method	
Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status		
29. Dispos	ition of Gas	(Solid, us	ed for fuel, ve	nted, etc.)						
							•			
Show a	Il important	zones of p	Include Aqui porosity and conditional control of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the cond	ontents the	eof: Cored int l open, flowing	ervals and all d and shut-in pr	frill-stem tests, essures and	31. Formatio	on (Log) Markers	
Form	nation	Тор	Bottom		Descrii	otions, Content	s, etc.		Name	Тор
						,				Meas. Depth
								Castle Peak Uteland Butte		5156' 5467'
22 4445		1	plugging proc							
32. Addii		S(morade	program prov	ecture).						
33. Indicat	te which ite	ms have be	en attached b	y placing a	check in the ap	propriate boxe	·s:	····		
		_	(1 full set req'o			cologic Report ore Analysis	☐ DST Re	port	☐ Directional Survey	
34. I hereb	y certify th	at the force	oing and atta	ched inforr	nation is compl	ete and correct	as determined from	n all available rec	cords (see attached instructions)*	
Na	ımc (please		ed Haddock				Title Permit An	alyst	- (	and alloware, and a second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of
31	gnature 4	X111					Date 12/05/200			

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

INTERVAL	(Top/Bot-MD)	SIZE	NO. HOLES	PERFORATION STATUS
5,886'	6,104'	0.430"	30	Open
5,582	5,791'	0.430"	24	Open
5,375'	5,531'	0.430"	21	Open
	L			

•

27. ACID, FRACTURE, TRE	CATMENT, CEMENT SQUEEZE, ETC. (cont.)
DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5,886' - 6,104'	1803 bbls. LGC6; 145 bbls. of slickwater, 140,896 lbs. 20 - 40 sand.
5,582' - 5.791'	2086 bbls. LGC6; 132 bbls. of slickwater, 161,638 lbs. 20 - 40 sand.
5,375' - 5,531'	1418 bbls. LGC6; 126 bbls. of slickwater, 106,736 lbs. 20 - 40 sand.

## **Directional Plots**

Wellcore

**Location Information** 

**Business Unit** 

Operations

Well:

#7-7-46 BTR

API #/License: 43-013-33565

Project

Surface Location:

NWSE-7-4S-6W-W30M

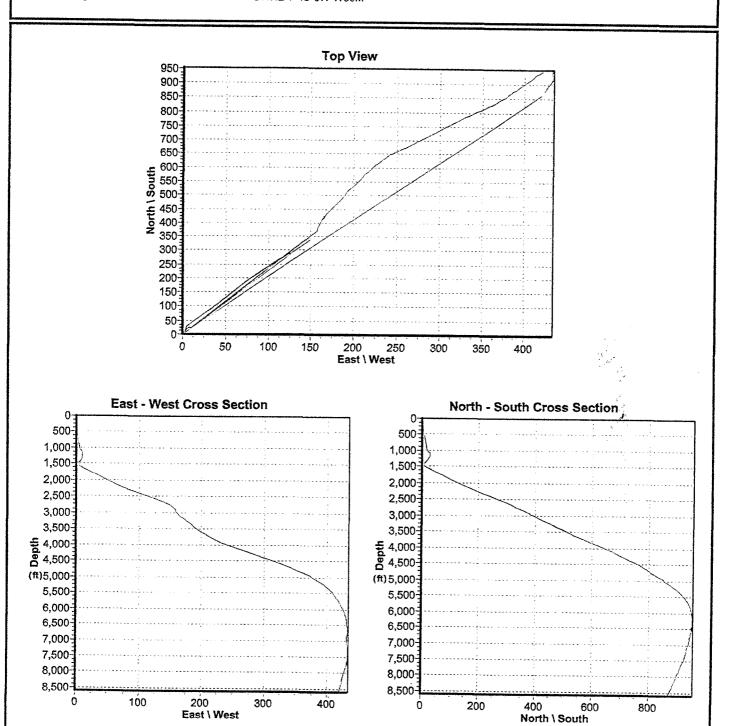
Phase/Area

Uinta

Bottom Hole Location:

Black Tail Ridge

SWNE-7-4S-6W-W30M



# **Directional Surveys**

Wellcore

Location Information Business Unit

Operations

Project Uinta

Phase/Area

Black Tail Ridge

Well Name

#7-7-46 BTR

Surface Location NWSE-7-4S-6W-W30M

Main Hole:

Bottom Hole Information	
UWI	API#
CIMINE 7 AC GIM IMPOM	43.013.33565

		(ft)	Or Date	(ft)	(ft)	I D: Date
--	--	------	---------	------	------	-----------

	Survey Information			
	Survey Company	Direction of Vertical Section (°)	Magnetic Dec. Correction (°)	
ĺ	Sharewell / WEATHERFORD	23,84	12.04	

Extrap,	Depth MD	Inclination	Azimuth	TVD	Sub Sea	Northings	N/S	Eastings	E/W	Vertical Section	Dog Le
	(ft)	(*)	(°)	(ft)	(ft)	(ft)		(ft)		(ft)	Ž.
i si jasky you				0.00	19.50	0.00	N	0.00	E	0.00	0.00
				0.00	19.50	0.00	N	0.00	E	0.00	0.00
				0.00	19.50	0.00	N	0.00	E	0.00	0.00
				0.00	19.50	0.00	N	0.00	E	0.00	0.00
······································				0.00	19.50	0.00	N	0.00	E	0.00	0.00
				0.00	19.50	0.00	N	0.00	E	0.00	0.00
				0.00	19.50	0.00	N	0.00	E	0.00	0.00
************				0.00	19.50	0.00	N	0.00	E	0.00	0.00
	<u> </u>			0.00	19.50	0.00	N	0.00	E	0.00	0.00
	<u> </u>			0.00	19.50	0.00	N	0.00	E	0.00	0.00
·····				0.00	19.50	0.00	N		E	0.00	0.00
				0.00	19.50	0.00	N	0.00	E	0.00	0.00
				0.00	19.50	0.00	N	0.00	E	0.00	0.00
	365.00	0.75	194.10	364.98	-345.48	2.32	s	0.58	W	-2.35	0.21
***************************************	805.00	2.00	194,10	804.83	-785.33	12.56	S	3.15	W	-12.76	0.28
	964.00	2.20	194.10	963.72	-944.22	18.21	s	4.57	W	-18.50	0.13
	1025.00	3.90	192.60	1024.63	-1005.13	21.37	s		W	-21.69	2.79
	1105.00	3.00	220.60	1104.48	-1084.98	25.61	S	7,27	w	-26.36	2.35
·	1200.00	1.70	347.70	1199.40	-1179.90	26.12	s	9.18	W	-27.61	4.47
	1295.00	5.20	2.80	1294.18	-1274.68	20,45	s	9.27	W	-22,45	3.77
	1391.00	8.70	13.40	1389.43	-1369.93	9.04	S	7.38	W	-11.25	3.87
	1486.00	11.20	19.80	1482.98	-1463.48	6.63	N	2.59	W	5.02	2.87
	1581.00	14.30	20.20	1575.60	-1556.10	26.32	N	4.59	E	25.93	3.26
	1676.00	15.10	21.90	1667.49	-1647.99	48.82	N	13.25	E	50.01	0.96
	1772.00	15.20	25.80	1760,16	-1740.66	71.75	N	23.39	E	75.08	1.07
*****	1867.00	13.20	25.10	1852.24	-1832.74	92.78	N	33.42	E	98.37	2.11
	1962.00	14.40	22.55	1944.49	-1924.99	113,51	N	42.55	E	121.03	1.42
	2055.00	16.60	23.90	2034.09	-2014.59	136.34	N	52.36	E	145.87	2.40
***************************************	2149.00	15.80	20.90	2124.36	-2104.86	160.57	N	62.37	E	172.08	1.23
	2244.00	16.00	25.00	2215.72	-2196.22	184.52	N	72.52	E	198.09	1.20
	2339.00	18.20	27.40	2306.51	-2287.01	209.56	N	84.88	E	225.98	2.43
	2434.00	19.20	24.30	2396.49	-2376.99	236.97	N	98.13	E	256.41	1.48
	2530.00	19.20	28.60	2487.15	-2467.65	265.21	N	112.19	E	287.93	1.47
	2623.00	18.00	28.60	2575.29	-2555.79	291.26	N	126.38	E	317.49	1.29
	2719.00	<b>1</b> 5.10	26.60	2667.28	-2647.78	315.46	N	3	E	344.76	3.08
	2805.00	14.00	23.90	2750.52	-2731.02	334.99	N		E	366.35	1.50
	2954.00	11.55	3.43	2895.80	-2876.30	366.35	N	156.51	E	398.35	3.43
	2985.00	12.25	4.42	2926.13	-2906.63	372.73	N	156.95	E	404.36	2.35
	3017.00	12.25	5.67	2957.40	-2937.90	379.49	N	157.54	E	410.79	0.83
	3048.00	12.88	7.92	2987.66	-2968.16	386.19	N	158.35	E	417.24	2.57
	3080.00	13.13	10.29	3018.84	-2999.34	393.30	N	159.49	E	424.20	1.84
· · · · · · · · · · · · · · · · · · ·	3111.00	13.81	11.67	3048.98	-3029.48	400.38	N	160.86	E	431.24	2.43
····	3141.00	13.56	12.54	3078.13	-3058.63	407.32	N	162.35	E	438.19	1.08
	3171.00	14.56	13,29	3107.23	-3087.73	414.43	N	163.98	E	445.35	3.39
	3203.00	14.69	14.92	3138.20	-3118.70	422.26	N		E	453.31	1,35
	3235.00	15.31	15.92	3169.10	-3149.60	430.25	N		E	461.50	2.10

<u>Location Information</u> Business Unit

Operations

Project Uinta

Phase/Area Black Tail Ridge Well Name #7-7-46 BTR

Surface Location NWSE-7-4S-6W-W30M Main Hole:

Extrap		Inclination	Azimuth	TVD	Sub Sea	Northings	I/N/S	Eastings	≋ E/W	Vertical Section	lashore sore
	(ft)	(°)	(°)	, (ft)	· (ft)	(ft)		(ft)	-	(ft)	Dog Leg
	3298.00	14.25	16.42	3230.02	-3210.52	445.68	N	172.63	E	477.43	1.69
	3329.00	13.44	17.04	3260.12	-3240.62	452.79	N	174.76	E	484.79	2.66
	3361.00	13.88	17.04	3291.21	-3271.71	460.01	N	176.98	E	492.29	1.38
	3424.00	13.75	18.29	3352.39	-3332.89	474,34	N	181.54	E	507.25	0.52
ļ	3487.00	13.19	15.04	3413.65	-3394.15	488.39	N	185.76	E	521.80	1.49
	3550.00	12.69	13.04	3475.05	-3455.55	502.08	N	189.18	E	535.70	1.07
	3613.00	13.13	17.92	3536.46	-3516.96	515.63	N	192.94	E	549.62	1.87
	3644.00 3676.00	13.75	20.67	3566.61	-3547.11	522.42	N	195.33	E	556.80	2.87
	3737.00	15.44	21.92 19.17	3597.66 3656.62	-3578.16	529.64	N	198.14	E	564.53	1.83
	3801.00	15.94	16.92	3718.24	-3637.12 -3698.74	544.27 560.73	N	203.61 208.97	E	580.13	2.27
	3862.00	16.38	17.17	3776.83	-3757.33	576.96	N	213.94	E	597.34 614.20	1.23 0.73
	3893.00	15.88	18.42	3806.61	-3787.11	585.16	N	216.57	E	622.77	1.96
	3924.00	16.06	19.04	3836.41	-3816.91	593.23	N	219.31	TE-	631.26	0.80
	3956.00	16.31	21.04	3867.14	-3847.64	601.61	N	222.37	E	640.16	1.91
	3986.00	16.38	21.17	3895.93	-3876.43	609.49	N	225.41	E	648.59	0.26
	4017.00	18.31	22.17	3925.51	-3906.01	618.07	N	228.83	E	657.83	6.30
	4048.00	16.56	23.04	3955.09	-3935.59	626.65	N	232.39	E	667.11	5.71
	4080.00	16.38	23.17	3985.77	-3966.27	634.99	N	235.95	E	676.18	0.57
	4111.00	16.63	27.70	4015.50	-3996.00	642.94	N	239.73	E	684.98	4.23
	4142.00	16.94	30.67	4045.17	-4025.67	650.75	N	244.10	E	693.89	2.94
	4205.00	16.50	33.54	4105.51	-4086.01	666.10	N	253.72	E	711.82	1.48
***************************************	4237.00	15.31	34.54	4136.28	-4116.78	673.37	N	258.63	E	720.45	3.82
	4268.00 4300.00	14.94 14.81	34.17 33.04	4166.21	-4146.71	680.05	N	263.20	E	728.40	1.23
	4332.00	15.44	31.54	4197.14 4228.03	-4177.64 -4208.53	686.89	N	267.74	E	736.50	0.99
	4364.00	15.69	31.67	4258.86	-4239.36	693.95 701.26	N	272.20 276.70	E	744.76 753.27	2.32 0.79
***************************************	4395.00	15.38	31.79	4288.72	-4269,22	701.20	N	281.07	E	761.49	1.00
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4427.00	15.31	32.29	4319.58	-4300.08	715.50	N	285.56	E	769.87	0.47
	4458.00	15.06	31.79	4349.50	-4330.00	722.38	N	289.87	E	777.91	0.91
	4490.00	15.56	31.04	4380.36	-4360.86	729.60	N	294.27	İΕ	786.28	1.68
	4522.00	16.00	30.29	4411.16	-4391.66	737.08	N	298.71	Ė	794.92	1.52
	4553.00	15.06	30.17	4441.02	-4421.52	744.25	N	302.89	E	803.17	3.03
	4585.00	14.50	30.67	4471.97	-4452.47	751.29	N	307.02	E	811.28	1.79
	4617.00	14.88	35.04	4502.92	-4483.42	758.10	N	311.42	E	819.29	3.66
	4649.00	14.72	37.16	4533.86	-4514.36	764.71	N	316.24	E	827.28	1.76
	4680.00	14.38	36.17	4563.86	-4544.36	770.95	N	320.89	E	834.87	1.36
	4712.00 4744.00	13.69 12.88	36.29 35.79	4594.91 4626.05	-4575.41	777.21	N	325.47	<u> E</u>	842.45	2.16
	4775.00	12.19	35.67	4656.31	-4606.55 -4636.81	783.16 788.62	N	329.80 333.73	E	849.64	2.56
	4807.00	11.44	36.92	4687.63	-4668.13	793.90	N	337.61	E E	856.22 862.62	2.23 2.48
	4870.00	12.31	33.54	4749.28	-4729.78	804.49	N	345.07	E	875.32	1.77
	4902.00	12.88	35.04	4780.51	-4761.01	810.26	N	349.00	E	882.18	2.05
	4933.00	12.56	36.17	4810.75	-4791.25	815.81	N	352.98	E	888.87	1.31
	4965.00	13.50	33.17	4841.93	-4822.43	821.74	N	357.07	E	895.95	3.62
	4996.00	13.56	31.79	4872.07	-4852.57	827.86	N	360.97	E	903.12	1.06
	5028.00	13.25	32.79	4903.19	-4883.69	834.13	N	364.93	E	910.46	1.21
	5060.00 5091.00	12.88	33.54	4934.36	-4914.86	840.19	N	368.89	E	917.60	1.27
	5123.00	12.88 12.38	28.29 25.79	4964.58 4995.81	-4945.08 -4976.31	846.11	N	372.43	E	924.45	3.77
	5154.00	11.50	25.92	5026.14	-4976.31 -5006.64	852.34 858.11	N	375.61	E	931.43	2.31
	5186.00	11.00	25.29	5057.52	-5038.02	863.74	N	378.41 381.11	E	937.84 944.08	2.84 1.61
	5218.00	10.69	25.79	5088.95	-5069.45	869.17	N	383.71	E	950.10	1.01
	5250.00	10.31	26.42	5120.42	-5100.92	874.41	N	386.27	E	955.93	1.24
	5281.00	9.94	25.92	5150.93	-5131.43	879.30	N	388.67	E	961.37	1.23
	5345.00	8.88	26.54	5214.07	-5194.57	888.69	N	393.30	E	971.83	1.66
-	5408.00	8.06	25.54	5276.38	-5256.88	897.02	N	397.37	E	981.10	1.32
	5472.00	7.56	23.17	5339.79	-5320.29	904.94	N	400.96	E	989.79	0.93
	5535.00	6.94	23.67	5402.28	-5382.78	912,24	N	404.12	E	997.74	0.99
-	5599.00 5662.00	6.25	24.17	5465.86	-5446.36	918.96	N	407.10	E	1005.09	1.08
<del>  </del>	5725.00	5.81 4.88	25.04 25.79	5528.51	-5509.01	924.97	N	409.86	E	1011.71	0.71
	5788.00	4.19	26.29	5591.23 5654.03	-5571.73 -5634.53	930.28	N	412.37	E	1017.58	1.48
	5851.00	3.88	27.17	5716.88	-5697.38	934.75 938.71	N	414.56	E	1022.55	1.10
	5914.00	3.31	33.00	5779.75	-5760.25	942.13	N	416.55 418.51	E	1026.98	0.50
	5977.00	2.75	40.29	5842.66	-5823.16	944.81	N	420.48	E	1030.90 1034.15	1.07
	6040.00	2,56	42.04	5905.60	-5886.10	947.01	N		E	1034.15	0.33
annet by Danie				<u>.</u>			.1			1000.34	U.33

Location Information

**Business Unit** 

Operations

Operation Project

Uinta

Phase/Area Black Tail Ridge

Well Name #7-7-46 BTR Surface Location NWSE-7-4S-6W-W30M

Main Hole:

Extrap: 0	epth MD (ft)	Inclination (°)	Azimuth (°)	TVD:	Sub Sea	Northings	N/S	Eastings	E/W	Vertical Section	Dog Leg
	<b>(4)</b>	<b>\</b>	<b>\</b>	(ft)	(ft)	(ft)		(ft)		(ft)	
	3104.00	2.38	41.54	5969.54	-5950.04	949.06	N	424.24	E	1039.56	0.28
	3167.00	2.00	45.79	6032.49	-6012.99	950.81	N	425.89	E	1041.82	0.66
(	3231.00	1.38	50.67	6096.46	-6076.96	952.08	N	427.29	E	1043.55	0.99
	3294.00	0.94	62.92	6159.45	-6139.95	952.79	N	428.34	E	1044.63	0.80
	3357.00	0.71	102.76	6222.44	-6202.94	952.94	N	429.18	E	1045.10	0.96
6	3420.00	0.57	121.24	6285.44	-6265.94	952.69	N	429.83	E	1045.14	0.39
(	3482.00	0.50	138.92	6347.43	-6327.93	952.33	N	430.27	E	1044.98	0.29
(	3546.00	0.75	143.79	6411.43	-6391.93	951.78	N	430.70	E	1044.66	0.40
- 6	610.00	0.88	153.29	6475.42	-6455.92	951.00	N	431.17	E	1044.13	0.29
16	673.00	1.25	160.29	6538.41	-6518.91	949.93	N	431.62	E	1043.33	0.62
(	3737.00	1.69	171.29	6602.39	-6582.89	948.34	N	431.99	E	1042.03	0.81
	800.00	1.94	172.91	6665.36	-6645.86	946.36	N	432.27	E	1040.33	0.40
(	864.00	0.87	198.18	6729.34	-6709.84	944.82	N	432.25	E	1038.92	1.89
6	927.00	1.13	193.42	6792.33	-6772.83	943.76	N	431.96	E	1037.83	0.43
1 6	991.00	1.44	191.79	6856.31	-6836.81	942.36	N	431.65	E	1036.42	0.49
7	7105.00	1.56	180.42	6970.27	-6950.77	939.41	N	431.34	E	1033.60	0.28
7	7117.00	1.75	179.16	6982.27	-6962.77	939.06	N	431.34	E	1033.28	1.62
7	212.00	2.06	175.79	7077.21	-7057.71	935.91	N	431.49	E	1030.46	0.35
7	275.00	1.69	170.04	7140.18	-7120.68	933.86	N	431.73	E	1028.68	0.66
7	7339.00	2.00	165.54	7204.15	-7184.65	931.85	N	432.17	E	1027.02	0.53
7	433.00	1.88	180.29	7298.09	-7278.59	928.72	N	432.58	E	1024.32	0.54
7	7528.00	2.31	179.72	7393.03	-7373,53	925.25	N	432.58	E	1021.15	0.45
7	7623.00	2.63	184.29	7487.94	-7468.44	921.16	N	432.42	E	1017.35	0.40
. 7	7719.00	3.06	184.79	7583.82	-7564.32	916.41	N	432.05	E	1012.85	0.45
7	7782.00	2.75	193.91	7646.74	-7627.24	913.27	N	431.54	E	1009.77	0.88
	7876.00	2.75	195.91	7740.63	-7721.13	908.91	N	430.38	E	1005.32	0.10
7	7971.00	2.75	197.91	7835.52	-7816.02	904.55	N	429.06	E	1000.79	0.10
	3066.00	2.88	194.92	7930.41	-7910.91	900.08	N	427.74	E	996.17	0.21
8	3162.00	2.88	195.29	8026.29	-8006.79	895.42	N	426.48	E	991.40	0.02
8	3257.00	3.06	195.42	8121.16	-8101.66	890.68	N	425.18	E	986.53	0.19
8	3351.00	3.31	190.04	8215.01	-8195.51	885.58	N	424.04	E	981.41	0.41
8	3446.00	3.44	189.54	8309.85	-8290.35	880.07	N.	423.09	E	975.99	0.14
	3509.00	3.44	193.04	8372.73	-8353.23	876.37	N	422.35	E	972.30	0.33
1	3731.00	3.44	195.00	8594.33	-8574.83	863.45	N	419.12	E	959.18	0.05

#### DIVISION OF OIL, GAS AND MINING

## Wildcat Well Determination STATEMENT OF BASIS

Applicant: Bill Barrett Corporation

Location: NWSE Sec. 7 T4S, R6W USM, Duchesne County, Utah

**WELL NAME**: 7-7-46 BTR **API #**: 43-013-33565

#### **FINDINGS**

1. The subject well produces from the Wasatch formation.

- 2. The subject well was > 1 mile from any known production in the Wasatch formation at the time of first commercial production on November 2, 2007. See Attachment A for summary of current producing wells within the one (1) mile area of review.
- 3. The 14-7-46 BTR well (API # 43-013-33806) is the only other permitted well within a mile of the subject well. It is a valid APD, but has not been spud yet.
- 4. This well is subject to the order in Cause No. 139-17 that was approved by the Board of Oil, Gas and Mining on September 27, 1978, amended by Cause No. 139-42 that was approved by the Board of Oil, Gas and Mining on April 12, 1985 and further amended by Cause No. 139-77 that was approved by the Board of Oil, Gas and Mining on June 18, 2007 ("Orders"). The Orders define Sections 7 as a common source of supply (pool see Utah Code Ann. 40-6-2(18)) for production from the Lower Green River and Wasatch formations.
- 5. Evidence presented in the Orders showed that there was enough geological and reservoir data to substantiate the existence of oil and gas in the Lower Green River and Wasatch Formations in this area. Several wells drilled in the surrounding area were submitted as evidence of this fact in these hearings.
- 6. The Wildcat Tax Credit application was received almost 6 months after completion of the 7-7-46 BTR well. Future submittals should be filed timely (see submittal requirements in R649-3-35-1).

#### **CONCLUSIONS**

Based on the findings above the Division has determined the 7-7-46 BTR well was drilled into a known producing area for the Lower Green River and Wasatch Formations. This well was drilled within a spaced drilling unit. The testimony presented in Cause No's. 139-17, 139-42 and 139-77 showed that the Lower Green River and Wasatch Formations were known to contain hydrocarbons in paying quantities in this area, insofar as much as the Board agreed and set up drilling and spacing units according to that evidence. No information was provided in the testimony or in the application that supported the subject well being drilled in a separate pool.

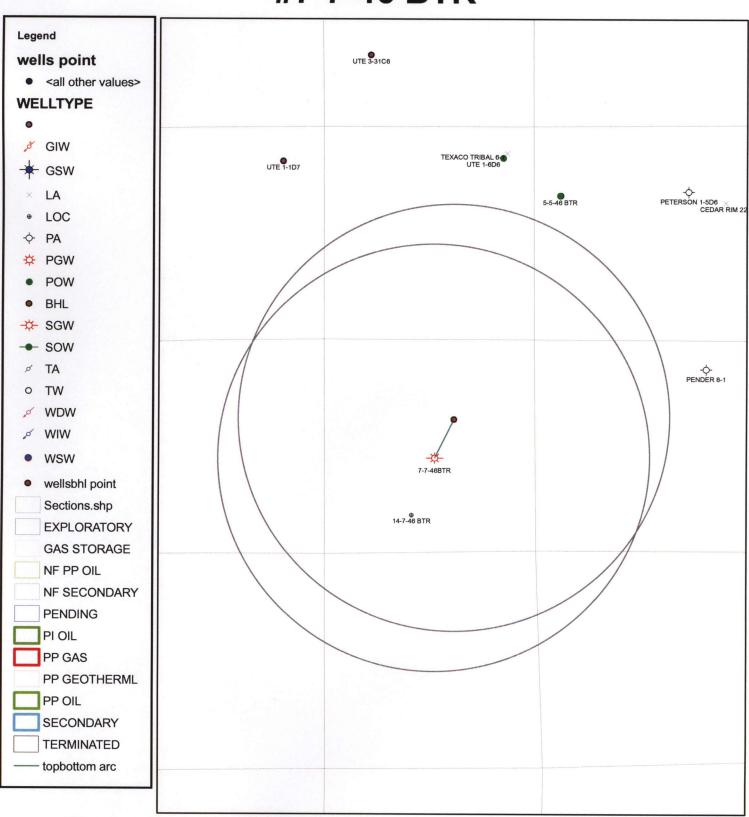
Therefore, the Division finds that this well does not qualify for the severance tax exemption under Section 59-5-102(2)(d) for wildcat wells. This determination was made in accordance with Oil and Gas General Conservation Rule R649-3-35 and the definition of a wildcat well in R649-1-1. If the operator disagrees with this determination, the decision may be appealed to the Board of Oil Gas and Mining.

Reviewer(s): Dustin K. Doucet Date: 6/10/2008

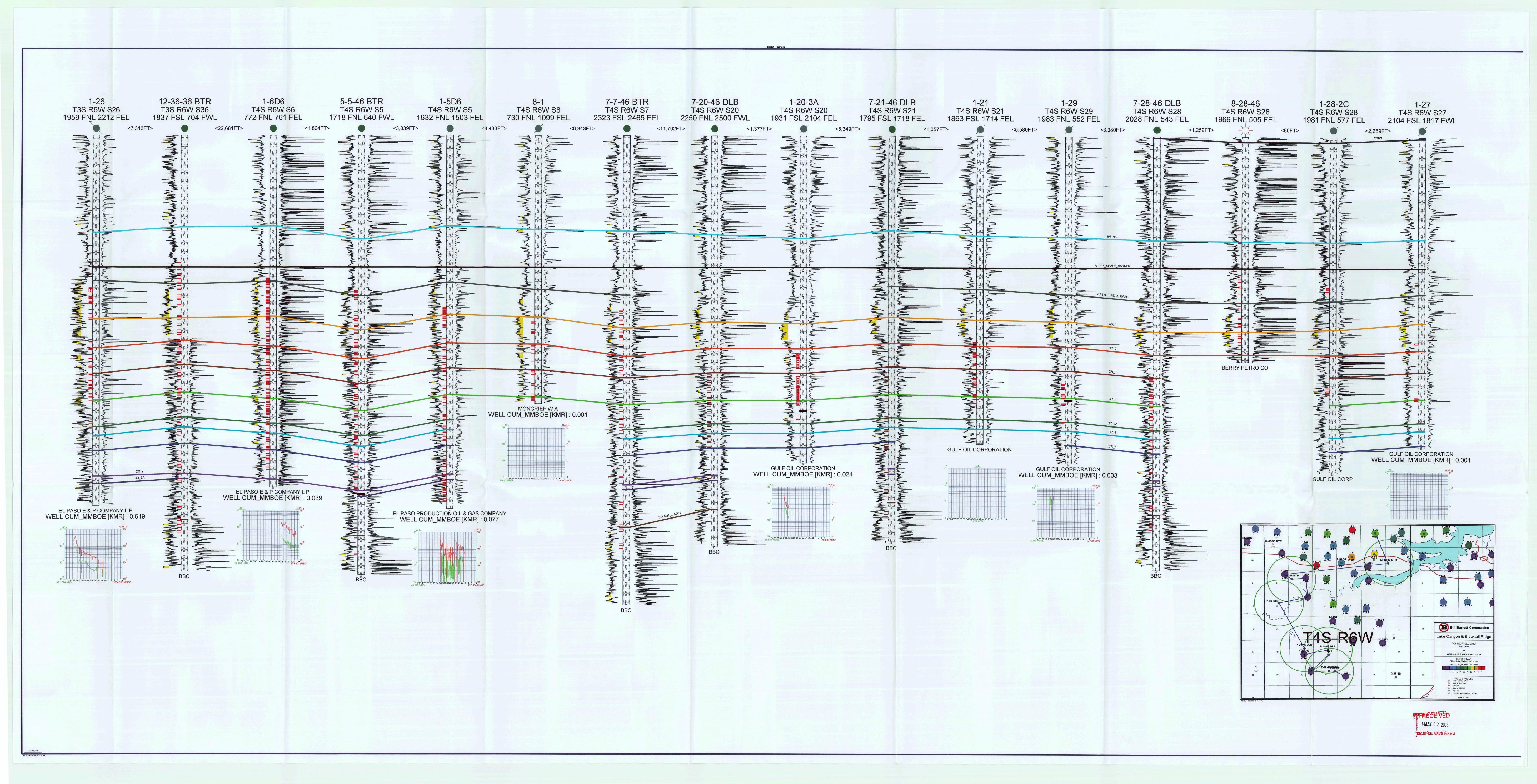
CC: Utah State Tax Commission ATTN: Ken Petersen

	ATTACHMENT A													
1 Mile Area Of Review														
API	Well Name	Well Status	qtr_qtr	Section	Township	Range	cum_oil	cum_gas	field_type_flag	Dx from Well (ft)	Rotary Spud	Date TD Reached	Date First Produced	<b>Producing Formation</b>
4301333565	7-7-46BTR	P	NWSE	7	040S	060W	4702	4965	D	0	9/7/2007	9/28/2007	11/2/2007	Wasatch
														j

# BillBarret Corporation Wildcat Area of Review #7-7-46 BTR









#### **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

#### SUNDRY NOTICES AND REPORTS ON WELLS

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

5. Lease Serial No.	
---------------------	--

#### BIA-EDA-2OG0005608

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160 - 3 (APD) for such proposals.				,	Allottee or Tribe Name  DIAN TRIBE	
SUBMIT IN TRIPLICATE- Other instructions on reverse side.				7. If Unit or CA/Agreement, Name and/or No. N/A		
l. Type of Well ☐ ☐ Gas Well ☐ ☐ Other				8. Well Name	e and No.	
2. Name of Operator Bill Barrett Corporation					# 7-7-46 BTR  9. API Well No.	
a. Address 3b. Phone No. (include area code) 1099 18th Street, Suite 2300, Denver, CO 80202 303-312-8546			43-013-3 10. Field and 1	3565 Pool, or Exploratory Area		
Location of Well (Footage, Sec., T., R., M., or Survey Description)					ONT	
2323' FSL, 2465' FEL NWSE, Section 7, T4S, R6W				11. County or DUCHES	Parish, State  SNE COUNTY	
12: CHECK AF	PPROPRIATE BOX(ES) TO	INDICATE NATUR	E OF NOTICE, R	EPORT, OR	OTHER DATA	
TYPE OF SUBMISSION		TYP	E OF ACTION		• .	
Notice of Intent  ✓ Subsequent Report  Final Abandonment Notice	Acidize Alter Casing Casing Repair Change Plans Convert to Injection	Deepen Fracture Treat New Construction Plug and Abandon Plug Back	Production (State Reclamation Recomplete Temporarily Ab	] [	Water Shut-Off  Well Integrity  ✓ Other Commingling	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Bill Barrett Corporation (BBC) request permission to commingle the Wasatch and Green River Formations for the #7-7-46 BTR.

		i	Date: 9.8.2008
		ł	Initials: KS
<ol> <li>I hereby certify that the foregoing is true and correct Name (Printed/Typed)</li> </ol>	1		
Reed Haddock	Title Permit Analyst		
Signature LOO HOOCK	Date	07/23/2008	
THIS SPACE FOR FEDERA	LOR ATTEMPER	E VOE	of This
Approved by	Utah Divis	Mining Date	deral Approval Of This Action Is Necessary
Conditions of approval, if any, are attached. Approval of this notice does not warracertify that the applicant holds legal or equitable title to those rights in the subject lywhich would entitle the applicant to conduct operations thereon.	^{ant or}   Of ! うし		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for an States any false, fictitious or fraudulent statements or representations as to any matter.	ymargen knowingly and willfuer within its jurisdiction.	ally to maken ECETH	g ncy of the United
(Instructions on page 2)	J (asse 139	1111 28 1	2002

**COPY SENT TO OPERATOR** 

Form 3160-5 (August 2007)

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010

5. Lease Serial No. BIA-EDA-2OG0005608

6. If Indian, Allottee or Tribe Name

## **SUNDRY NOTICES AND REPORTS ON WELLS**

		to drill or to re-enter an PD) for such proposals.	Ute Indian Tribe	
SUBMIT	IN TRIPLICATE - Other	-	7. If Unit of CA/Agreement, Name and/or No.	
1. Type of Well	· · · · · · · · · · · · · · · · · · ·		N/A	A. A. A. A. A. A. A. A. A. A. A. A. A. A
Oil Well Gas W	ell Other		8. Well Name and No # 7-7-46 BTR	
2. Name of Operator Bill Barrett Corporation			9. API Well No. 43-013-33565	
3a. Address 1099 18th Street, Suite 2300, Denver, CO 80202		3b. Phone No. (include area code)	10. Field and Pool or	Exploratory Area
1099 10(1) Street, Suite 2300, Denver, CO 80202		(303) 312-8546	Altamont	
4. Location of Well (Footage, Sec., T., I 2323' FSL x 2465' FEL NW/4, SE/4, Section 7, T4S, R6W	R.,M., or Survey Description	)	11. Country or Parish Duchesne County,	
12. CHEC	K THE APPROPRIATE BO	X(ES) TO INDICATE NATURE C	OF NOTICE, REPORT OR OTH	ER DATA
TYPE OF SUBMISSION		ТҮРЕ	OF ACTION	
✓ Notice of Intent	Acidize Alter Casing	Deepen Fracture Treat	Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity
Subsequent Report	Casing Repair	New Construction	Recomplete	Other Venting Gas
Suosequent Report	Change Plans	Plug and Abandon	Temporarily Abandon	
Final Abandonment Notice	Convert to Injection	Plug Back	Water Disposal	
Bill Barrett Corporation (BBC) was in Questar told BBC that we not transp locations during this time: 5-21-36 E	ort gas for all of Cedar Ri	m properties for 3-4 days (gas pr	roduction). BBC request pern 3TR, 12-36-36 BTR, and the	mission to vent the following
		1		•
		Date: 10 H · 2		SEP 2 3 2008
		Initials:	S provencipalenthias arrived	DIV. OF OIL, GAS & MINING
14. I hereby certify that the foregoing is to Name (Printed/Typed)	rue and correct.			
Reed Haddock	,	Title Permit Ana	alyst	
Signature LM LL	addoeK	Date 09/18/2008	В	
	THIS SPACE	FOR FEDERAL OR STA	TE OFFICE USE	
Approved by	ut	Title Pe-	t-Eng.	Date 10/7/08
Conditions of approval, if any, are attached that the applicant holds legal or equitable tentitle the applicant to conduct operations	itle to those rights in the subje	s not warrant or certify ct lease which would Office	Dom	
Title 18 U.S.C. Section 1001 and Title 43	U.S.C. Section 1212, make it	a crime for any person knowingly and	willfully to make to any departme	ent or agency of the United States any false,

(Instructions on page 2)

fictitious or fraudulent statements or representations as to any matter within its jurisdiction,



### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

5.	Lease	Serial No.	
В	IA-ED	A-20G000560	9

6. If Indian, Allottee or Tribe Name

## **SUNDRY NOTICES AND REPORTS ON WELLS** Do not use this form for proposals to drill or to re-enter an

Ute Indian Tribe abandoned well. Use Form 3160-3 (APD) for such proposals. 7. If Unit of CA/Agreement, Name and/or No. SUBMIT IN TRIPLICATE - Other instructions on page 2. N/A 1. Type of Well

* *				L	<del></del>		
Oil Well Gas V	Vell Other				<ol> <li>Well Name and No # 7-7-46 BTR</li> </ol>		
Name of Operator Bill Barrett Corporation					9. API Well No. 43-013-33565		
3a. Address		3b. Phone No. (i	nclude area co	de)	10. Field and Pool or I	Exploratory Area	
1099 18th Street, Suite 2300, Denver, CO 8020		(303) 312-8546	3	· ]	Altamont	1	
4. Location of Well (Footage, Sec., T.,	R., M., or Survey Description	1)		·	11. Country or Parish,	State	
2323' FSL x 2465' FEL NW/4, SE/4, Section 7, T4S, R6W					Duchesne County, Utah		
12. CHEC	CK THE APPROPRIATE BO	OX(ES) TO INDIC	CATE NATUR	E OF NOTIC	E, REPORT OR OTH	ER DATA	
TYPE OF SUBMISSION			TY	PE OF ACTI	ON		
Notice of Intent	Acidize	Deepen	1	Produ	ction (Start/Resume)	Water Shut-Off	, <del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>
Trouce of them	Alter Casing	Fractur	e Treat		nation	Well Integrity	
	Casing Repair		onstruction	Recon		Other Venting Ga	ıs
✓ Subsequent Report	Change Plans		d Abandon	_	•	- Culci	
Final Abandonment Notice	Convert to Injection	Plug Ba			orarily Abandon	<del></del>	
13. Describe Proposed or Completed O					Disposal		
testing has been completed. Final determined that the site is ready for Bill Barrett Corporation (BBC) was in October 26, 2008. Questar told BB the following locations during this time. BBC's previous request dated Septe	r final inspection.) nformed by Questar that tl C that we not transport ga ne: 5-21-36 BTR, 5-23-36	hey plan to perfo s for all of Cedar 3 BTR; 14-29-36	orm planned m Rim propertion BTR, 14-30-3	naintenance es for 3-4 da 86 BTR, 5-5-	on their pipeline star ys (gas production). 46 BTR, 12-36-36 B	rting in the late afternoon BBC request permission	on n to vent
					COPY SENT TO	O OPERATOR	
					11 01	= 2000	
					Date: 11.25	5. Wa	
					Initials:	KS	
					parties and a second parties and	<u>V </u>	
14. I hereby certify that the foregoing is t	rue and correct		<del></del>	<del></del>			
Name (Printed/Typed)				*			
Reed Haddock			Title Permit A	nalyst			
Signature Lood K	taddock		Date 10/27/20	008			
	THIS SPACE	FOR FEDER	AL OR ST	ATE OFF	ICE USE		
Americal by							

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Action Is Necessary

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department practice of the direct states any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

STATE OF UTAH			FORM 9	
DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING			5.LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608	
SUNDF	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
	sals to drill new wells, significantly deeper Igged wells, or to drill horizontal laterals.		7.UNIT or CA AGREEMENT NAME:	
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: 7-7-46BTR	
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43013335650000	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300, D		ONE NUMBER: 312-8164 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2323 FSL 2465 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 07 Township: 04.0S Range: 06.0W Meridian: U			COUNTY: DUCHESNE  STATE: UTAH	
11. CHE	CK APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPORT,	OR OTHER DATA	
TYPE OF SUBMISSION		TYPE OF ACTION		
	☐ ACIDIZE	☐ ALTER CASING	CASING REPAIR	
NOTICE OF INTENT Approximate date work will start:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME	
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE	
✓ SUBSEQUENT REPORT  Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION	
2/26/2008	☐ OPERATOR CHANGE	LI PLUG AND ABANDON	☐ PLUG BACK	
SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION	
·	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON	
DRILLING REPORT	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL	
Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION	
	WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Correction to lease num	
This Sundry is being	MPLETED OPERATIONS. Clearly show all per submitted to indicate that the correct lease number is 14-20 your information with this le	ne lease for this section has 0-H62-5671. Please update ease. <b>Oi</b>	5	
NAME (PLEASE PRINT) Tracey Fallang	<b>PHONE NUMBER</b> 303 312-8134	Regulatory Analyst		
SIGNATURE N/A		<b>DATE</b> 8/11/2010		

Sundry Number: 71051 API Well Number: 43013335650000 FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

	FORM 9			
ı	5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-5671			
SUNDR	RY NOTICES AND REPORTS ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE	
Do not use this form for pro current bottom-hole depth, FOR PERMIT TO DRILL form	posals to drill new wells, significantly deep reenter plugged wells, or to drill horizontal n for such proposals.	pen existing wells below laterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME:	
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: 7-7-46BTR	
2. NAME OF OPERATOR: BILL BARRETT CORP			<b>9. API NUMBER:</b> 43013335650000	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300		DNE NUMBER: 312-8134 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2323 FSL 2465 FEL			COUNTY: DUCHESNE	
QTR/QTR, SECTION, TOWNSH	<b>HIP, RANGE, MERIDIAN:</b> 07 Township: 04.0S Range: 06.0W Meridian	: U	STATE: UTAH	
11. CHEC	K APPROPRIATE BOXES TO INDICATE N	ATURE OF NOTICE, REPOR	T, OR OTHER DATA	
TYPE OF SUBMISSION		TYPE OF ACTION		
	ACIDIZE	ALTER CASING	CASING REPAIR	
Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME	
5/31/2017	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE	
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION	
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK	
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION	
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON	
	U TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL	
DRILLING REPORT	☐ WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION	
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:	
12. DESCRIBE PROPOSED OR		ertinent details including dates, d	enths, volumes, etc.	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  Well was shut in on 6/1/15 due to low production & low commodity prices. On 5/30/16 the well will be SI for 1 year. Current economics do not justify returning the well to production. For this reason BBC is requesting an additional 1 year shut in, before a MIT is required, until 5/31/17. Well currently has 10 psi tubing, 1204 psi on 5-1/2" csg, 6 psi Braden Head. With minimal to zero Braden Head pressure & 1204 psi csg pressure, it is evident that the 5-1/2" prod csg has full integrity & all formations are protected. Fluid level is at surface because this well is on hydraulic jet lift & has a packer set at 6400'. TOC at 1500ft. The well is SI at the wellhead & all surface equipment has been drained/winterized. Well is still on an active lease operator route & is checked frequently for any for any surface & potential downhole issues. Well would be RTP if economics allow before 5/31/17				
NAME (PLEASE PRINT) Brady Riley	303 312-8115	Permit Analyst		
SIGNATURE N/A		DATE 4/12/2016		